PAGE 1/81 \* RCVD AT 9/1/2007 2:48:01 PM [Eastern Daylight Time] \* 5/1/2057 5/105 \* DNIS:27:3109 \* CSID:613 230 5459 \* DURATION (mm-55):24-06

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Date:

Fig. 1 in

September 11, 2007

From:

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To	Company - City	Phone	Wa gain it.
ART UNIT 1712 Attention:	United States Patent and Trademark Office		Facsimile 571-273-1091
Examiner Peng			

#### Message

Please see attached.

Re: United States Patent Application No. 10/815,826

Filed: April 2, 2004 Title: Drilling Fluid Inventor: Len Baltoiu Our Ref: 9-15652-2US

Barristere & Solicitore, Patent Agents & Trade-doork Agents

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Telophone (613) 780-8661 Pax (613) 230-5450

Quebec

09/11/5007 14:46 FAX 613 230 5459

## PAGE 2/81 \* RCVD AT 9/11/2007 2:48:01 PM [Eastern Daylight Time] \* SVR:USPTO-EFXRF-2/10 \* DNIS:2731091 \* CSID:613 230 5459 \* DURATION (min-ss):24-06

File No. 9-13652-2US

Date: September 11, 2007

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Len Baltoiu

Filed:

April 2, 2004

Serial No.:

10/815,826

Title:

DRILLING FLUID

Examiner:

Philip C. Tucker

Group Art Unit:

1712

#### Mail Stop Amendment

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA
22313-1450 U.S.A.

Sir.

In response to Examiner Peng's telephone request of September 10, 2007, submitted herewith is the MS-DS information which was inadvertently omitted from our response dated June 7, 2007.

Paul Sharpe

etfully submitted.

Registration No. 39,493 Agent for Applicant

PSS/sr

Address:

Ogilvy Renault, LLP

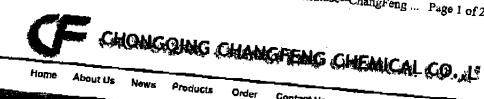
1981 McGill College Avenue

Suite 1500 Montreal, Quebec H3A 3C1 Canada

Telephone: (613)780-8676

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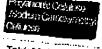


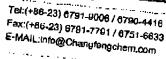


# Core Products

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CR120F332F244/3

#### **PRODUCTS**

# Polyanionic Cellulose (PAC) Specification

www.chane

Formula:  $\{C_0H_7O_2(OH)_0$ -fi (OCH $_2$ COONa) fi  $\}$  x PAC-HV (High-viscosity)

Appearance Substituting degree White or light yello-Apparent viscosity in water, mPa.s Apparent viscosity in saturated brine, 0.85-1.10 3.79/ mPa.a Water, 96 ≥60 (3.7g/ ρН

Contact Us

< 0 Mud generating capacity 6.0-8.0 ≥400m 3,

¦È 600 ≥12mPa.s (148.€ PACILY (Low-viscosity) E 300 ≥12mPa.s (148.€ Арреалелое Substitution degree

White or light yellow p Apparent viscusity in water, mPa.s 0.85-1.10 Apparent viscosity in saturated brine. ≤ 6.0 (2.286 g/l Apparent viscosity in 4% brine, mPa.s \$ 6.0 (2.857 g/) Water % ≤ 6.0 (4.286 g/) DΗ Filtration loss, mi <10 6.0-6.6

Characteristic ≤ 13.0 (3.6g/l)

Polyanionic cellulose is white or yellowish powder that is odoriess and soluble in water to furm thick liquid. It has good heat-stabilly and high sail. It is not formented. Polyanionic cellulose (PAC) is a sodium carbo cellulose with high uniformity, high degree of substitution and high qua

The product is used as an additive for drilling mud, especially used in salt-rich sera or under the sea.

#### Packing

The inner layer is polyethylene film bag. The outer layer is plastic wow composite plactic woven beg. Net weight is 25kg per bag.

http://www.changfongchem.com/producter 1 2.

65-55 FXRF-2/10 * DNIS:2731091 * CSID:613 230 5459 * DURATION (mm-ss):24-06	IAS : [awi] jubijaed wasea] Md 10:84:7 2007/11/6 IV
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Copyright(C)2006, ChangFeng Chemical Co., Ltd. All Rights Res	SHIVED. Supported by Netsun Chamblet Ob.
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Heavy Oil 🔀 🚉	polyanionic cellulose
<ul> <li>More search options</li> <li>Ferms beginning with:</li> </ul>	1. n. [brilling Fluids]
# A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AJI	A cellulose derivative similar in structure, properties and usage in drilling fluids to <u>carboxymic carboxymethylcellulose</u> . <u>PAC</u> is considered to be a premium product because it typically har degree of carboxymethyl substitution and contains last residual NaCl than technical grade espoxymethylcallulose, attnough some PACs contain provides the provides to the provides the provides to the provides the pro
Resource Links	See: celcium carbonate, carponymethyleellulese, PAC, votassium myd
<ul> <li>◆ Unfield Services</li> <li>◆ Schlumberger Excellence in Educational Development</li> <li>◆ Oilfield Review</li> <li>◆ Curve Mnemonic Dictionary</li> </ul>	
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Heavy Oil .T ,Ga	PAC	
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Brand Name	Generic Name/Composition	Primary Function	Manufacturer/Supplie
18A12	Liquid PHPA	Plocaulants	
K7 Water Soluble Pak	Myagos Powser	harrariries	Altitid Collekte
Abandonpak	MidRiffingtional pooker fluid inhabitor (water soluble)		Canamara United
Abandonpak (30)	Self-dispersing, multi-fung: packer fluid inhib (water soluble)	consistent inhibitor	ICTG
ABI 349 Modern Phio	Shed beniense		1070
Bi High Yeld Senionile	Gentled wyuming beniphile	LOSE Circulation Mulphal	Milanum Technologies Ltd.
ARI Premium GAI	Wyoming bentonite	A-E-COENIEM	Mildraum Yectmologica Ltd.
ABI Untropted Opt	Unuterlad partners beinghile	Viscosi fers	Millentim Technologies Lin
Actionard	Shalo & otay inhibitor for Aphron ICC	Wiscoulfiers	Millanium Yecknologies Lmi.
Activered Cerbon	Charcos	Strate Countries (Interferent	APCIBA Specially Chemicale
Activator i	Thornol plabilizer for API-PON ICE	Sungco Active Agents	AI .
Activator II	Thermal exposiger for APP (AUNICS	Pulymen Stateburg	M-I Rwach/Farlest
Aceuta	Of mud HTHP filtrate reducer	Polymer Stabilizers	Mei Berego/Padaral
AK-70	GASOTIE	Threte Beducars	Ramid
Aktatio-E	Cocyechial ad alinyl phonol liquid	Filtrato Reducent	Serold
Alacto-B	Manu azyptnyléted phenois	सामान्यक	Barraid
Altomer 110 RO	High mol wt.ambrila disporablepalyacrylamide	Surface Active Agents	Darpid
Adomer 180L/OB	Toget it at weathering the politic people year year day	Hocculariu	All / CIBA specialty chemicals
Alcomer 242	AMPS - polystryjamide ocealymer	Chate Control Inhibitory	AUCIDA Opecially Chamicals
Address 274	ANNEX : Individual to according	Filialy Modepers	AL/CIBA Specially Chemicals
Alcomer S38 RD	CHIEF SERVIC SCHIC SCHOOL STREET BUTTINGS	Viscoelfer	APOIDA Specially Chamicau
Alcomer CORD	High Mot ws. Antonia polyskarylamide	Photodyda	All / CIBA spenisty membrals
Alcomer 72L	LMW arronic prepersion PHPA	Shale Control Intributors	ALACIBA Specialty Chemicals
Alcomor 74	Liquid LANA palania stryle is-broad polymor	Transportants	AIRCIBA Specially Character
Alcomer 74L	Modified activity polymer, cargum stable	Thinners, Cusporsance	AMCIBA Specially Chamicals
Alcomer ICRD	Liquid anionic scrylic od-polymer, paidum svetila	Tirriera, Dispersants	AIVCIBA Specially Chemicala
Aldacida G	HMY whenly dispensive PHPA	Erale Control Inhibitory	Alici BA Specialty Chanitals
Alkation A/25 D	Clusters blythyde polution	lancier folges	Ramid
Allestion EA-73	Diseaselite PHPA low viscosity anionic	Shale Control Inhibitore	AlkSynerthem
Alimino EAA	PLIPA groupion	3046 Control Intelliture	Al/Synerchem
Alkadam A-1 103 D	Sulfigured AMPS	Etate Control Inhibitory	AL/3ymarchem
Altopom A-1763D	Dispussible PHPA HMW actuals	Plusaderilà	All/Synamhern
Alkabam A-250	Dispersable PHPA Have anionic	Vienneligis	Bynerchem
Alabam C-1903	Disportible PHPA low vamoelly enjords	Ciucculents	All / Syberhorn
Alcopert CP787	Castonic .	Amoviante	All/ Dynarcham
THE PROPERTY OF THE PROPERTY O	PHPA optionic HMW	Tixxulanis	Alf / Synarcham

Alicanam N 1003 D	Dispersible PHPA MMW pondunic	□ Coccutante	All / Eynareham
Alkacam N-11095	Pelyeon/temide	Shale Control Inhibitors	All
Alkacam S	MOIVECT/(straides	Flocaulante	Al / Synanthom
All Temp	All lemperature polyment dellocoutent	Thirvers Dispersents	Baker Hughes Inled
Alphadnii	Liquid shale statestor	Stilute Control (nhibitors	Consmire United
Agior	Inhibitive aluminum complex	Chair Christian Inhibition	Baker Hughes Integ
Aluminum Starrete	Aluminum sigarate powder	defeamer	All
Artunoddu	(bertupine) raidulai elada blubili (winterbad)	Shale Control Inhibitors	linic.
American His IIIA	Okvijau skaranda.	sugation inhibitor	
Ammonium Sulphale	/ummonium sulphaja	Shale Control Inhibitors	AI
Aphron ICS	Water-base reservoir driffin flyid	aresiere	MH Sweco/Paderel
Aqua Fac LV	Polyenania seltulos e	Filirate Reducers	Bn-Chem Suttly Uff
Apua Pac Reputar	LookBuilding calmosed	Plikaliji Reducers	Dri-Chem Supply Ltd.
IDO-BUDA	Cloud-point palyglycal	Shale Control Inhibitors	Baiker Hughtes Inteo
Aque-Onli System	іліныме дусоговава алыпд ічуд	37548(115)	Baker Hughes Integ
Aquagel	Treated podium monimeritlensia	Films Red werklevieller	R-rold
Aquagel Gold	Treated application translation the	Filirate Reducers/Macos filer	Bereid
Aguaige Gold Geel	Trouted sedium markmentienise	Vigrandilians	Bemir
Aquamagic	Non-load of the alluminated alluminations of the control of the co	Lubrisania	Sever Hughes Inteq
Aquepeo LV	Pgtygntonic callulum	Shale Central Inhibitors	Bri-Chem Supply Ltd.
Aquapac Regular	Polyanionic defluture	Viscosifiers	Dri-Ohem Supply Uti
Aqua-8ter D	<u> </u>	Filmia Reducers	Canamasa/Hollimby
Asphasol D	Suggraved organic blends	Shale Control Inhibitors	M-I 3WBCD/Tederal
Asphasd Burpreme	Surionaled gephan	Profe Control Inhibitions	M-I Bwaico/Federal
Allaculgia	CJBA ARRODANIBLIOL BENT ARSIGL XARITALE	YINCO SITIATE	All
D 1007	Granutar Biocide	paciencidas	lette
B 1006	Litypick, rypro-fluer colony, Erlypicker	baczericides	IOTO
B.A.S.C. Mud	Water based mud for bitumon & hoovy oil water	Systame	Manyris Fluide
Barabiok	Powdorod hydrocarbon festi	Pilitate Restricts	Denoid
9arabut	Magnesium Dwide pH (₩)	glissifally pH control	Barnid
Baracarb	Şizad calcium carbonau	Luck Chronolium Meterial	Barrid
Barnesi.	High charge callanta polymer	Ehnia Chalmi Ishihian	Barreld
Barachok	Çgitulopic Polymor	Hinsia vaccous	Berold
Bornotive	Pelar activator for use in 100% on systems	Surface Arahie Agenta	Bernid
Berg-Oglopm PP	rqiypropylene glycol	defuerther	ğərçiğ 💮
Bora-Dofoam I	Surface solive datasmer	dalanmar	Ebo Asid

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Barreckfilth	Myre بيان مواسلات الساب المراجعين المراجع الم	Dystems .	Deroid
Borsikm	Filming amina	corresion inhibiter	Barold
Barafloc	Açıylamide polymenic hydrolife powder	l'ioccutente	Deroid
Bolatobur	Socilium ACI Biologica	Framing Agents	Barnid
Baratos	Miculfied Bodium polyphosphare	Thinners, Osppersonis	Baroki
Bersgel 3000	्रीयो ला। भी भारतकार्य विश्वत	Varnation	Resort
Dan of sea	Temperature statila lignita powder	Pilitara Meducera	Deroid
Baraplup	Sixed and treated salts	Loss Circulation Maneral	Renold
DRISH RELLEAD	Ogjanophilic viscosifier for oile	Vaccelflere .	Deroid
Raraecav D	Priwiereri erallum sulphite	corresion inhibitor	Bareld
Barescav L	Едина да уделя жыли при	conceion inhibitor	Deroid
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Barazan	Pulyasicchende propolymer	Viscosifiers	Barold
Barazan D	Dispersion enhanced vanishin gum	Viencelliers	Rerold
Baratan D Plus	Dispersent added blopolymer	Vigcostiers .	Serold
Berezon L	Liquid vanihan gum birgrilyasar	Virthellank	Simtle .
Quelly	Processed barries (Da3O4)	Weighling Melerials	All
Berlum Carhonsia	Salum carbonale	Commercial Chamicals	Imeg/Al
Partition	· iron codde	Weighting Majorials	Deroid
Bamilton	Fibrous colluinsic malarial	Lost Circutation Malerial	Bemki
B910(0	Bartistoarium eulphane (Be3 04)	Weighting Materials	Baroti
Barniri 100	All nii Juid system	Eysterns.	Barniri
Derolli	Oceania seed monofilament finor sweeping agent	Viscosiliers	Baroki
Baro Libe GA	Surfaciant/kithrinant Nand	Lihricanta	Remail
Darosear	Qombineton LQM	Logi Çirçulation Malaria!	Darold
Baro-Spot	Plend of Anionic Conference	MACINIC	Ramif
Band-Trus Phus	Diended hydrocarbon powder	Ghale Control Inhibitors	Deroid
Ran-Py	Co-polymer focculant and day extender	Viscosiliars	All/Keitre Oilseld Group
- Dangtura	Modified argencehilis clay	Viascolliera	Bri-Class Supply Ltd.
RAMMA 38	HTHP performance organically	Viscosifiers	Rd-Chem Supply Link
G901008 \$10	Economical organocay	VISIDSIDE'S	En-Crem Supply Ltg.
Reninge150	Ref-editating organizary	Visconibera	Brichem Supply Ltd.
DEX	W/calcium carbonale statilized HEC	Viscostians	Srine-Add Mulds
Cararta of Seedu	Notice	alkalinky pH control/colours rampyers	All

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040 CEO	Mon-lemanting shandally modified about	Filtrato Reducera	Boker Hayleys trays
Cio-Losa 90	Drift in system for fractitied pargonale regaryons	SAMIRMA	Reker Harther Inser
glo_Pag	Organia denizata Silvetion control agent	Filtrate Reducers	Buler Hayless fister
Elicvis	ri L Diopolymer	Viacositions	Caramara Linking
Biozsin	HT biopolymer	Viscosifiera	Al/Keltu Offield Group
Burnin Maryer	Oil-base sporting Ruid	Lutificants	Parer Hughes Inles
Black-Magle LT	Low toxicity aporting duid	Lucricense	Deker hughes Inuac
Black-Mark CTT	Spepting fluid concentrals	alnavadir	Roler Hughes trues
Fiscknise	Coupled effcontle-based dispension	Filt/eto Réclusions	Sur\ Drilling in payons
Black dig K-Pay	) Jiquid potassium based plisonille	Shale Conimi Inhibitore	Sun Drilling Products
Risarh	Sodium Hypochiema	Deticricides	Constitute United
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Bluff Framiech	Anionio surfaciare	Foaming Appropr	Digital Mud
DOTB Lines	Alanded byorocarbon powder	Shele Control inhibitors	Brine And Flack
Printernav	Low colleids high performance Wild	Övaleme	Gerold
Dore-Pizie	dispert of dispersion programs	Shale Control inhibitors	Carron Critical
Repole	Malatio eteorers dispersed in etgenol	dotpomer	Drive-Add Fluids
Dri-Ohen Couple	Nur Hundo aur Rectant	Surface Active Anente	Art-Chern Supply Ltd.
n-Chem Defnemer	Foreral purpose alcohol deformer	dolonor	Bri-Chan Supry Lat
Bu-Chem M/0	Cupidentifisted anti-tracking surfactang	Surface Active Agents	Bri-Chem Supply Ltd.
Brl-Cnemelda	Liquid Biopide	terdere idea	Bit-Cinent Supply Lid
Enogo &w	Polymors, carpum Ignoquephala, pall	Filippie Reducers	Pring Add Fluids
Rrelgik	Sized coldium corporato	Leer Circutation Material	Brine-Add Fluids
Drine Guard	Auphide scavenger - zing carbonale	compsion inhibitor	Bring-Add Fluids
Princerd N	Viscositied heavy bring system	Systems	Baroki
Grime-Ox	guliy valayang OZ prayeriger	correspon inhibitor	Bring-Add Flyida
Anirewale	Bitted asili for density and fluid loss control	Wolghilms Malertats	Britin-Aug Hurga
Dug-filler	Christatulat yold (30 % 80krilion)	baciariorias	Bring-Add Fuide
exr	Riendad septials and hydrosorpon regin	Shale Control Inhibitora	BatAl
DXR-L	Standard assistably invitorantico) (##11 to a phycerologlyco) base	Shalla Control Inhibitory	Barid
iga Absorbant T478	Sized Zeal is	Lool Circulation Material	Carrier at United
Isidum Cantonale	Sland calcium cartigrana	Weighling Materials	All Calles
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Calcium Chlorkin	Catidium ghionge	Weighting Malerials	
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⊇an-Firesk I	Enzyma proviker	Polymer Breakers	Canamara United
Can-Es	Bantorila adandar	Polisocol	Commert United
Can-Froo	Surfaciant for mixing with of to tree pape	Surfate Active Apents	Canamara Uniled
Can-Oil	100% oil-based drilling fluid	Bystoms	Byrnco Orlánz Pueda
Can-Dil FLC	Fhild loss control for all-oil evalum.	FILM & Reducers	Canamara United
Carpo-Core P	Refined OI	Drill Mud Dong Fluids	Dater Hupres integ
Carbo-Cora R DII	All-nii driiling / dritti in Tiuld	Hysterns .	Raigar Hughas Inter
Curbo-Core B System	Retired of invertenuision	Systems	Baker Hughes Inleq
Corto-Drill System	Mineral bit mwart emulsion	Systems	Raiger Hillighest Inlen
Carton-Cai	Organistrika hoderliteviasselller for sellde auspansion	Yessalfers	Sever Huphes Inley
Certic-Mid (418)	Oil must amulather and walling agent	emulaller	Reser Hughes Inten
Cortso-Mul HT	High-temp emulationand welling apeni	omulaille:	Calver Hughes Inleq
Carbonox	Janiuc humic acid powder	Thirners, Dispersants	Beroid
Contro-Ton	Oil mud amusifier	amula frar	Dohor Hughes Inteq
Carbo-Trol	Cill mud filtrakion-algrigatic bland	Flysle Reducers	Balger Hughae Integ
Gerbo-Trol A-9	Non-cophobio filmsion, control agent for invens	Führete Reducers	Dater Hughes Integ
Carbo-Iro HT	High Jema softening point alisanile for improved littration in inverts	Filirale Reducers	Balticer Rugnes Inleq
Oproo-Ma	Organo-bankorska	Vegositera	Daker Hughes Inexp
Carbwalo	Calcium carbonave	Weighling Malanals	Horn-Arid Fluids
Cal-800	Modified starch	Filtrate Reducers	Baroid
Cal-HI I	Modified cellulosic polymer	Fillrata Radixears	Bamid
CENLO	Modified calkilode polymer	Filtrete Reducars	Cercia
CaFViz	Welan gum blopglymer	Viscosifiers	Baroid
Caustle Potash	KOH	alkalinity off control	All
Caustic Socia	MADH	alkalinity off control	Ai
60 700	Liquid day control (winterpet)	Straie Control Inhibitora	ICTC
CC-18	Causticized leonardie	Filtrate Reducers	Barnid
ODF-100L	Antonic polygorylamida	Shale Control Inhibitors	Concord Orlling Pruids
Celex	Sodium carbonymethyl celulese	Filtrale Reducers	Bernid
Oelloflaka	Caliophene lieke	Lock Circulation Material	All
Callophane	Lalophana lake	Lost Circulation Material	IIA
Coolum Formatio	High deneily brine	Walphong Matengo	Canamera United
CF Desco II	Organic trimmer chrome-free	Thinners, Dispersenia	ALI Drilling Specializes
CFL 100	Ohrome free Agnosullonets		Georgia Pagelic
Chex-Loss	Greyind complexed cellulose	Lost Circulation Material	Baker Hughes Integ
Chek-Lean Course	Ground complexed collulean	Lond Circulation Material	Caker Muphes Integ

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Chel-Loss Plus	High ligain celluloses LCM for ES in lovert fluids	Loci Circutation Material	Carkor Hughes Integ
Chambreak EB	Enzyme for breaking polymers	Polymor Brankers	Prine-Ariel Fluids
Chembrask ECA	Ensyme bland for polymers and stargh	Polymer Brackers	Ditro-Add Flydds
CONTROPORTION HC	Calcium nygogrygnie oxigizmo adeni	Polymer Breakers	Brune-Add Fluids
Chemoide	Liquid Blodide	botterides	Canamara Unked
hemolean Rig Wash	Biodepradable ploaneridegreeser	Surface Active Agents	Canamara Linteri
Chamioam	Fooming agent for water	Poeming Agents	Caramora Unasti
Chemilib 83	Corrosion Innibitor & anti-enerobic beclericide	corresion inhibitor	Bring-Art Fiulde
Chemol	Brookable off-besed mud	Systems	Barpig
Chempi pH	pH control - chemoil svetem	alkalawy pH engind	Carpennes Linker
Chemoli-Bulf	pi-i control - chamali systam	alkalinity of licentral	Consmora United
ChemolHDFM	Deloamer for Champil system	rlefnarrier	Canamara United
Chemal-Cal	Sites-golant	Viscosi/lura	Cenemore Linited
Chemical-Unit	Cross-Invior anemosi gel	Viscosffera	Carramera Unberl
	Thinner for chemoli dyelem	Thirries, Dispersants	Carbonata Circles
PS) a Gurund CAM	Ining for alreased mude	Thirthers, Drichersants	Canamara Lintled
Chemical X	High-temp filtration control agent for water-bess fluide	Pitrate (Inducera	Batter Hughes Inted
C)rement	Qli mud primary gmu[s]fig/	emulatier	Canamara Imigri
Chanul II	Oil mud secondary emulcifier	emute//er	Canamara United
Classer CM	Of mud weiting again!	gradialiar	Canamara United
ChrymanoLCM	Worting agains	Burtago Agilyo Agonta	Centemers United
Chiron Flac	PAPA	Hazalaris	Chiran Technologica
Chrome Alum	Chromio chlorida	Dommercial Characela	Imco/All
	COMPLIANT TO THE PROPERTY OF T	corresion inhibitor	M-i SwarnFederal
Cirrio Apid	Allestinity control	Mediality pH control	AI AI
Cignogri	Clarried Xenthan cum	Vacos libra	Drilling Specialities Co.
Otay Grabbar	Celocity Receiped for Hydro-Guard system	Pocquante	Epitod
Clay Syte:	Shale habitatif for Hydro-culand system	Shale Control Inhulling	Namid
Claycool Plus	Ampholeda material	Shale Control Inhibnors	Garold
_C/By-Troi	Amphotenc amine complex	Shale Control inhibitore	Paker Hughes Integ
Clean Up	Fig Wesh Cleaner	Europe Active Accres	MH Shatoff oile at
Clearant	Low lox joby 5HC mineral oil	Drill Muri Raga Flyria	ICTC
Clearon	Blanded polymens with contonuing	Lost Circulation Material	Milentum Technologia Liu,
Clearigam K	MX858AUTI TOTMATE	Shala Control Inhibitors	Milenium Terhnologies Lid.
CUC	Corpor, methyl cultulose	Films Peducero	Managarii 107740707011 Ltd.
C-MALE	PAU ponceni	Lubricania	Sun Drilling Products
Cemporbe	Clarch system (1927)	SAUT ISSUE	aus uniting Producti

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Coastalube	PAQ injorqui	) uhricania	Sun Drilling Products
Con Del	Mud Detergent	Burlace Active Apends	Barrel
Congor 494	Phosphorus-based corresion (nhibitor	acrosion inhibitor	M-I Swarzy Faderal
Core-dirit	All oil thard ayesum	Systems	Barold
Corinox	Correcton Inhibitor/coygon esovenigor	overneine inhibiter	Canamara Linkari
Collegisted Mulis	Herein liuf adastr goog zugge f	Luce Chauloturi Malerial	baxer Hughes Imag
romax MEP 426	S way packer fluid inhibitor	Compaign Inhahlige	Raby Highns Inter
CRW 132	S way parter (bild ) dilutor	companie inhibitor	Daker htuenee Integ
Crystal-drill	Polymeric chale inhibitor	Shale Control Inhibitore	Roreri
C-squeeze	Figure (educal additive	Filtrato Pontacio s	Marquie Fluido
Сурпа	Sortum Properyone	Fillinte Reducers	All/Flowline Solutions
D176 Pius	High-temp polymor fillrate control for high statistics controlled	Filippy Finances	كدائلة بيو ويورد أولانك كرد.
Dokolilo (fignila)	Ugrille	em delice	ĀÐ
Dap	ulamorium phosphale	Shale Control belitation	Al
D-Break	Viscosity breaker for pure oil systems	Thirmore, Oleporeary's	Concord Unling Flysts
D-Byff	Dr.J. CODWO) - Dure Cil EVELETTE	alkalmily pH control	Concurs Orliting Plate
D-Central	pH control - pera sil systeme	alkalinity pH control	Concord Driffing Fluids
DD.	Dillieu Deseruerd	Şyrlejy Açiley Appets	M-I Smare/Frahead
oopdal Inhibhor	Bland of polyglycerine and methyl pluccelde	Shale Control Inhibitore	Newpork Delling Fluids
Deform 2000	Silicanie Leieed defuerrei	defuerner.	Bit-Chenn Supply Util.
Defoem-2	Water micrahin inc polymer systems	deframer	Firm And Fluids
Delgem-A	Alcul sil jaseeli, ilefuerrer	dalnania	M-I CHEMITHIEF
ofcomer Silcone	Filogop be sed deframer	deframer	Canamara United
DBIQEID-A	Low suddly defaulter	र्वसरिक्षास्त्र	M-I Gwatti/Fetield
Densimb	Hempilin	Weighting Materials	Bother Highes Inten
U9900	Organic dilayer	Thingens, Disperseme	All/Dritting Specialities
Delargent L	Drifling Mud Deterpent	Surface Active Agents	9n-Chorn Supply Ud.
Deletiki CT	المالية والمالا مالية المالية المالية المالية	Februaro Reduces	Barjad
DF -10	dry PHPA	Flocouterile	IDF-Technikada
Diamond Soci	Abportuni guillight polymet	Local Chooledon Maleriel	لبارانية
Disposit M	Plendad LCm material	Log Circulation Material	All/ Orilling Specialities Co.
Dipro	High genelly low solids RDP	Gyslene	MH Owest/Pederal
Disperse	Welling agent, mealogy modifier	omulalia-	Bri-Chom Supply Link
D-LINK	Viscosity activator-pure oil systems	ARCOFILELE	Concord Orbiling Pluids
DME	Mon-torale emulation	omusifior	Impo
DMS .	rion-conic surfacenx	Surface Active Agents	Imco
Dowcide G	Sodium Penjachlorophenera	bacier oldes	irroofeli

Onl Treat	Lection liquid	Surface Active Agents	Berold
Driloom	Polymer and alsed carbonals blood	Veccellium	Concord Orlling Fluide
Ort-con D	brend non-tonicyanionic aurrapa agenta	SURED ACIVE ADERIS	SUB UTAING HTOGUCIA
Driloen DB	Uquid shelq inhibitor	Elvalo Control Inhibitore	Eun Drilling Products
Unit-Dicklor		LOGIL CITCUIERON MARIEDAI	Canamara Unaed
Drilloam	Pogrning agent for weller	Feoming Agonts	Baroid
Orlf Kan MRP		Surface Active Agents	Militarum Téchnologies Lud.
Ord Plug CM	Blandad etzed poliulaca libor	Logi Çirquişilen Matatarlat	Millenium Teampologies Ltd.
Ditting Determent	Cirilling delergent liquid/powder	Suitace Active Agents	Canamara Unsed
Drillout Pluo	Ampholeric cellulose ether	Filtrale Fleducers	Milenium Technologias Ltd.
Drillpsc HV	Polyanionic callulose	Viscosmens	AUDrilling Specialities
Drillpas LV	Polygnionia callulaça	Filtrete Rodycere	∧4/Dri≡ng Specialises
Drill-Thm	Uniforme trae organic minner	I DIDDECS, LASDECSEDE	AUL/nimp Specialises
Driff	Non-damaging day free polymer based eyelem	Eyelema	Marold
DNI-N-5809	Blend of organics	Lubricants	Barold
Drileten	MMO viacostfler	Vipocoffora	M-1 Bwtoco/Federol
Orteler HT	High lighter or the start of the High	Fürele Reducers	AI
Drawn	Blodogradable demulation	Burface Acero Agente	Consord Drilling Fluids
Origical D	Syntholic HTHP polymer	FOlizate Reducers	ALDMing Specialises
Driagoa	Pohenionio cellulosa	VicaceTiem	AL/Driling Specialtics
Onspac Plus	Polyanianic cellulose	Viscosifiers	AWOrlling Specialise
Japan Pius Buperlo	Polyenionio cellulose	Filtrale Reducera	AMOraling Operating 2
Oristoec Suiterlo	Polyanionic cellulose	Shele Control Inhibitors	AVDrilling Specialities
DECO Boads	Polymer beads	Lubricania	Drilling Operatelias Co
DSCO Delcem	Propigrary de gamer	Cigloentie/	AMDNING Specialists
D-Thins	Thirtings for pure oil ayecame	Thinners, Dispersons	Concord Drilling Fluids
Diial-Fic	Filirale Reducer	Filingte Redupers	Me Segoo/Federal
Duo-Ma	Xanthor gum, disposible, non-alatified	Videoillera	MH Owngo/Tederal
Duratone HI	Organophilic colleid powder	Filtrale Reducera	Hardd
Duranak Plue	High-terap sulfaneted co-polymer	Filirose Floducera	Berold
D-VII	Viscoeffer - oure oil systems	Vaccetiera	Concent Orlling Hulds
Dynode!	Dritting Itylial ablergent	Burface Active Agenia	Newpork Dalling Flyidg
Dynaliber	Celuiase fiber	Losi Circulation Malenal	Newpark Orlling Fluids
Dynarod	Cround natural liber	Last Circulation Metada	Priling Specialities Co.
Ecoditil 317	Polacsium silicate	Shale Control Inhibitors	National Sticatos
Ecogreen B	Easer base fluid	Drill Mud Beno Pudda	MH QWstor7sderel

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			MH SWEUNFUULTUI
Ecògreso &	Secondary emulation for Ecograph system	emuldflor	M. Swago-Faderel
Ecorol	Polymente Servic reducer	Mirelo Reducera	M-I Swacoffedgraf
EK 2000 Degreaser		Surface Acitus Apents	Sun Origina Producia
Emul-Break	Emulsion breaker	Surface Autory Appelle	Continues United
_ emugo	Chalk base employer	arn daffer	Brine-Add Ruide
Encapsulator	Liquid polynorylamida	Fiocoupirs	Canamata ranied
E_wageur/bc	Liquid polyabylamide	Fincasiants	Bri-Chem Supply Ltd.
Entropasitor	Liquid polyecrylamide	Flocoulaires	Сапаттата Оппед
Erwi Wnii	Low toxicity SHC mineral of	Drill Mint Rose Fluids	icto
Environ:	tnorganie biodegradeble florauters	Fiocovente	Algebra Hydro
Ending Hill	Arrine Sall	Shele Statemer	Unionberr
Environ	942ed bentorsis	Lost Circulation Material	Servernere United
Enviro-Spor	Zgi usina dduceunase	Lubricants	Ramid
Enviro.Thin	Cryome-tree fron lighterulphonele	Triverora, Dispersonia	Daroid .
Enviro-Turq	mon-igrap (dibrigan)	Lubricanis	Barold
Envirovert	Obtoride free DBM	Sysigms	MI SWEET PORTE
AND HIGH YERLI BETTERS	Peplizad wyoming benjanile	Vacasilian	Canamara United
EZ Drti	Non-foorting vegetable ed bland	Lugnuties	SIGURERALIMEN
Ec Mul NT	Cili-soluble surfacian (flouid non-loxic	Athirthe	Borold
Factors	in situ löväri emutetiler	10-Naturna	Bárrid
CZC-Slute	Liquid lubricam	Lubrigants	Sun Driling Products
EYE-SIde ()	Liquid lubrigani	Luteineda	Sun Driving Products
Entrilde OS	Liquid lubricant	Lutringgia	Sun Drilling Products
Executo YLT	Liquid jubilgani	Libriches	Sun Orlling Products
Ez-Gida	bieno or duractanis	Lundrage	Beroid
Ec-Mud	Polyporytamide polygoryteko	Shale Control Innibitury	REGIS
EX-Mud DP	Sijala glatifizing polyaciylamida	Stele Control Inhibitors	Bernd
F7_Pkin	Apid pollubio bland of LCM	Losi Circulation Material	ESTED
CZ-3pot	Blend of ensulations, subficants and viscossions	Lyhdoenia	Band
FA troold phoa	l ky art polycorytemide	Bhole Control Inhibitors	
FELS-Mul	Chuleffer for Pazeoro system	GITLIAITO?	M-I Swood-Ederel
Fazenen	Reversible werling invertientulaten mud	Оувісто	M-I Swapu Fedoral
Fed Pac Pt	Polygraphic CENUOSE	Videopilars	Federal Wholesele
Fed Pac III	Polyonionio estudore	Viscosifiere	Pederal Wholesale
Federal Decile	Art SDec Danie	Worthling Maintele	Federal Whomas
Federal Sprignite	Sodium montmortilonile	Viscos (Grs	Federal Wholesale

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Services of residuals	Bodium monimarilande printedital	Meroplans	
_ Figur-Adia II	Alended L/TM	LOSI Stradelien Magney	Federal Wholesald
Fed. Rhopamely	Organic durage	Thinners, Dispersance	Forteral
Pack-Engl	Blennieri I CM	minors, Disparance	Pederal Windighala
Fedkan D	Xantier gent visualite!	Lost Circulation Material	Farieni
Fer-UN	Constad homasia	Viecositions	Federal Windowskie
Fériomate	POTOUS carbonage	Weight in Materials	LA Rupcoffederal
Film Figure Course	Call to p fiber	Weighting Materials	Drino-Auld Plubby
Fiber Fluid Fine	Selfukce fiper	Lvet Circulation Majerial	CE/Flowine Solutions
Filter K	ANI Strictle LCM	Lost Circulation Material	ALIFTONIA SULUTURA
AIDH K	Polatisanializati	LOS CITCLERION ARRIBAN	Sim Firlling Products
Filter-Chok	High-Tomp Modified Clarch	grotidani iosinoo erena	Mil Systal/Pedaral
Filtrante	Privmeria visconi Producti Inc.	Climate Keducera	Ramid
Piliteryle II	Polymerie viecesillermuid lose reviewer uped in conjunction with benjorate	Viscoulipp	bright Specialities 40.
Fittrox	Enhanced from Vecrystor	VI MANUAL PARTY	D'Mar Solutions
FT-2	Folyenionic figure restri	Filmie Reducero	TOPAN Hughes Ingo
FL3	Water-solidate hydrocologo	Filtratio Sectucies	Dring Add FAids
FL-9	Water-soluble (tydru ustude	Fitrain Rocuers	HINTIA AND FRANCE
FLS	Maler-Antishle hyrtin posoids	Filled by Section 13	Drine-Adu Plutje
710	Wester-soluble mydy coloids	Filmia Reducers	Bring Add Fluids
FL7 Plus	Waler-enlittle hydro cotoids	Pilitate Recupping	Di av AUU (Tules_
FL-0	Witter-polluble hydro collects	Filtrois Reducers	Brine-Arti Aulde
	William and mydro collaids		Brit 19-Add Maids
Flaire	Qeliuphano flatiu	Filuzia Reoucers	Bring. And Fluids
FIO-PIBIL	Polyment than lines setting	Loci Circulation Motorial	All
Finner NT	Minimat golido con pulmanent a West	Filiphe Reskapers	MJ Succo/Federal
FID-T(W	Modified starts demailing	Systems	MH Swisco Federal
FM.Vie Paus	Promium kanijen pum	Pilitera Réducers	MJ Swaro/Federal
Piowcan	Xanihan girm dispersible	Victorians .	MH SHAW/Fudurel
Finvir	Organic Notavians	Verosiii gra	All/Civiling Conclaired
From Breske	Propielary deleganer	Floreutenta	M-I Swago/Federal
Foam Buster	Mechanical/Chemical (Adepting)	delgamer	Flowling Solutions
Foani Cheuth	Machanical/Chamical defearmer	deleamer.	Our Drilling Products
Form A Plus	Times and sequences described	gerbarner	Millerium Technologice Ltd.
Form-A-P/UG II	Acid soluble pluy	Lost Circutation Majorial	MH Swarpy-608/BI
Form-A-Sal AK	Add abluble pain with emailer porticles	Lost Churchion Material	MAI SWAGON COLORS
Form-A-Sel ALT	Polymeric LCM	Loci Circulation Majorial	240000 cde/g1
Form A-Sal II	FONTIERIC LCM for eath climpion	Lost Chwieten Material	MH 3waco/rederal
·	Polyment CCM	Lost Circulation Material	LLI Bunco/Factoral
			M-I Bayyu Technia

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ACHIPA Dispit 27	Liquid potyecylitrade	Territoria.	
IX Entric	Princellum Inmale	Shale Control Injuriors	Powine Solvante
A MAI I	Privacy probables		DMK Drilling HURGS LYO
fx fisul ii	Secondary counts has	amuis Re-	DANK Drilling Fluide Uto
6. Chi Sonab	Cit spluble suichide sCarryanger	emulsifier	DANK DAIDHIN TOWNE U.D.
TK PODIV	Bland of polymers	Corresion Inhibitor	DAMK Drilling Fluids Ltd
for Geruto	Maries acritose arribiscos acenteudes	Viotosifiero	DMN Dritting Fluids Ud
fx Thin	Dallonnian	corrosion inhibitor	Diluk (Intling Fluide Ltd
Colone	Lead suiphida powge)	Thinnan, Dispersence	DMN Emiling Fixeds Ltd
Ge	Sodem moremonikovile er Etrapulgile	Weighting Meterials	
Gelon	Boniomia extendor	Vescoping	All
Gettone II	Oil mud galling agent	Viecondiers	M-I Swapp/Fedgraf
Gallone N	Cat Inter Desire about	V48008/Rara	partito
Geluse V	Polymer trained arganophilic utay	Vitcosians	Parpid
Godylt, KT	Arnine Irealed organophilic day	Viagos/liers	Det vid
Gliegalio	HT slebte bioploymer	VI\$CDS/BIGFR	All/Kalco Olffatt Group
CARSON HT	Natural bitumen	Shala Control inhibitors	Al
Glass Books	Natural biturien pulverizad	Filtrale Reducera	841
lob Grouph 2001	Stred dates bearing	Lettricents	Canamera United
Glyshil	Pleasagral aphonical graphies inem	Lubricania	Congress United
Go David II	Polyakylane plynni	Shale Control installations	W-I EMBEDILEGOUS
Prophile Prophiles	Provides LERV for AHPHERON (Ob ayelem	Viscosilera	M-I Sweed-Foderal
Creende	Graphia	L/Artconst	Carjemara Unkard
G-Seed	Non-U.Q. Execus	bacteriore	M-I S-moo/Federel
Gumbo Shield	Greative blugging agent	Lost Circulation Material	
	Liquid shells inhibitor	Shalig Control Inhibitors	MI Burgo Federa
Gypeurn H.E.C.	CBloum sulphole	Shale Control (nt) (b), pre	Sun Drilling Products
	Flyoroxyehiyi celiuloso	Viecosifiera	All .
Hibrol	Note on a surfaction (	Surface Active Agents	
	Modified petrulosic polymer	Filtrate Reducera	Canamera United
High Permin	Amino	Oracle Control Inhibitors	M-I Ewago/Fedoral
HBO 600 G	Oil-coluble H2B somerager	comesion inhibitor.	Newperk Uniling Fluids
1131/10700	Liquid HZR ATRIVOTOS	corrolon inhibitor	AI
Humalta	Lignite	Thinges, Dispusação	plaker Hughes Inled
Hydroggi	Wyoming bentonto	Viagoslices	Conomera United
Hydro-Guard	High performance WDM	Systems	bri-Chem Supply Lid
Hydro-Plug	POWDENC LCM for vugular or cavemous formations		- Gazold
ADGAS INCOME.	Uguld HMW enionic polygontamids	Loss Otroutation Material Spale Control Inhibitors	B=roid

Hypermili AF207RD	Anjurit; polyscrytamids	Hacallants	
Hyperdril APEATAD	High Ligh wt. Anlania palyssaytemide	Flécoulents	At _
	LMW armonic dispossibly PHPA	Shala Cantro (phid org	Canamara Linilari
Hynantrii CP 9/5H	HMM pptpho PHPA	Bhaic Domed labelion	Carserum d United
Hyperiloc Care 10	Сывопь розунстуатира	Fioccuianta	Áli
Hysester: CP011	Collanic polyactylamida	Florendards	- Al
Hyperitoc Nr 301	No the dippetypic yeariths	FigCoutants	AT
HytalPire	Water colubie filtrate subfilies brings	Felimin Medicorn	Ering-Agg Pitale
i - Clep Fek	MultiHunca, Packag SpriJ riggs & toward protection	COmpaign Inhibitor	ILTE
IC-leam 1978	Winterfred flamer (equor solution)	Foaming Agenta	icre
IC-CORR 702s	Wight looy it juit correction intributor (od sojubje)	corresion infiliar	ICTC
KC-CODR-R RSR1	Limit romocion inhibitor (water solubie)	compelen inhibitor	icit
IC-DEFOAM 1488	WinterLead entificati (water squippy)	delgamer	ICTC:
IC-DEFOAM 1989	Wintertzet entitoen (of schole)	de comer	
15-400 2008	Microtox fitendly liquid flegguent (weter square)	Flocoulants	No.
IC-line 2000	Hierotox mandly Equid Receptors (water colubte)	Flocularia	KCTC
IO-foem 1401	White saw (sanding pyent (water soluble)	Forming Agenta	ICTO
Colrom 1840	Wintertaid oil forming prient	Fazering Agents	icité
10-foam 1000	Multi-cher pe capatily fusining agent (water soluble)	Framing Agents	igio
ICHSCAV 4412	Winterbed Smirl MSS accupager (of solutio)	corracion inhibitor	IETC
10H 650AY 4764	Whitenest house scareness (which double high-lump)	compsion inhibitor	ičič —
IC44SCAV 4038	Winterfred Would FOE scrupnger (veiler actuble)	corrector inhibitor	iÈTÈ
IC-OSCAV 1060	W/ItBH and cululyand paygen scavenger	COTTOE(III) [rh] Ditor	icic
IC-Wal	water writing agoni (winterzea)	Buriece Active Agents	- CTC
ldcep D	Púlymento ehalle inititaliar	Shaki Control Inhibitors	Mil Suntch/Ferleral
kikiha	Refined vagetable oil	LABORERICE	M-I Owers/Federal
ldlubé X	Extreme pressury lubrace it	Lubricents	MH Swarn/Federal
Imon Far	Rartle	Wolghling Materials	Inco
loncay Biggs	Astrolia illera	Viscosillers	Inco
Impo Brinegel	Allan Agle	Visonsillem	linco
Impo Oal	Column the control	Thirinark, Dispersanta	Imea
2) CMC (reg.htvls.lech)	Barlism rarborrymathyl pallulosa	Fétrato Recluçora	Incu
Imoo Oefoam	Sodium elkyl aryl sulfaneig	deloamer	lmen
Imen EP Lithe	extrome proceure lubricani	Lubricants	
Inco Pizikos	Cetrophana flaxe	Lost Circulation Material	lmep .
Inco Flo	Hernigoly extends	Thirmers, Dispersants	Imag
		The stored Diabotogning	imco

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Imea Fine	Fineouisting agent		
ATTICO FORMI SAME	Surface active dispersifie liquid dispersor	Floorillaria	Imao
Iznco Francipa	elimporture addita (IP	detosme.	Imco
Into l'voci	Albrous moseries	Lubrisarya	(ARCO
lmen (Gel	Betterin	Lost Circulation Material	<sup>1</sup> mco
Imou Clairek	Peniphile Protector	Vincention	lmeg
Imon Holecost	Maria, geologiaja sejaluari	Viacod Pers	Mca
knop Hyb	Benefica po beneralia	L(D)) Carries	troo
Imm Ken-Gol	Visite 6 polity apeni	Viecutifiere	men
Imaa Kanal-3	Invent amuseum system	Viscostiurs.	4mee
Imes Kanal-A(D)	Primary amuture	Oyatems	Trigo
Integ Heating	Californ Ocido	emulafter	(max)
Imco Reo Pay	Francis and selection	Shale Control Ity (Bulgara	Imco
Impo Kon-Pak	Epocasily modified deposition feely acid uline starts	orn deline	Imco
Imoo Ken-Srinceme	Gelatinous of base fluid	Byg49778	Imco
Imco Ken-Buprena A	Oil base mud	SV#/Ama	(1000
mon Kan-Sugrema B	FRIY 90d amulsiliar	emulaiter	
Imco Ken-Thin	Emulator stabilizer	6Mulstiller	Imica
Imm Ken-X	Diapersani	Therefore, Diago sperils	imoo
Imax Ken-K	High temperature positivays	provide and a second	Imon
	Invert émulsion system	Systems	Imeo
mco Klay	Sub-bonlonio	Viscosifiere	imco
IMEG HARBOOM	Combination of granules hakes and librous molarists	Losi Ofrazion Maigrini	lmop
lmio Lig	Mined Agraig	Thinners, Danestonik	Irrigo
Imoo Lista	Prepaletanized Starch		imica
inco Lubridean	Organio entity noutrelless with princes	Filtrofic Reduceré	lines
imoo MD	Delensen	Lilvigint	Impo
Imas Mud CIII	Oli disperainte perroruit	Lubricania	Imeo
Imos Myce (F,C)	Ground Mica	Lifercanis	moo
Jmen Oll-X	Low oper Invent perulation system	Less Circulation Material	Imed
Imoo Phips	500um etraphosphoto		tmcg
Impo Plug (F.M.C)	Walted shells	Thenera, Obpersents	Impo
Immo Preservatoid	Paratormordehyda	Lost Circulation Material	ITIGO
IMC6 PT-102	Filming aming	pacieudia:	Mon
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/mcq R0-111	Clear acting temporals	Thinwa Dispoisants	Iman
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	And an Any doing announces & supplicated total CUMP	Lubricanis	Imac

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Imeo VC-10	Modified Egropey Jonata	Differ, Dispersionis	Impa
bing VR	Stable gop bonahole ponditions	Travers, Dispersors	Iman
Imco Water	Cataliti (Sibousia	Amula ler	Imgo
THE WILL	Fibrous material wool	Weighting Materiets	1000
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Kam-Geal	Cx5090Hblu gridg xeninan gum		Althoro Olifield Group
Kim-Mad	Co-polymer for high-lesso fittration control	Vacositara	All/Kelen Dilliold Group
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riyurated Lime	. Titners Dispersants	Consmore United
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V. high mol wt. Aniente polyacrylanide		
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V. high mol wt. Non- broke	- Hocquienia	AN / CIBA soccessy chemicals
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Mixed motal al cata system		Consmare Unlied
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Liquid polyacy/difinide		Baker Hughes Inteq
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MF 5 Floc	Low mpl, wt. optionto		
MF Elightow		- Fiocosilants	Marquis Fluida
MF 3Jánap	Rig oquipment dissing.	Lubricants	Maroula Fields
'All-4	rejective floor (an)	Strate Adles Agente	Marquia Fluide
Wr-Emui	Primary emulation	Floodulenta	All Kelon Oil eld Group
MF-8/35	n Chambric Dovacylamide	emetalier	Margy p Muldis
UF-DiluxI	Oil walking sport	Shale Control Inhibitors	AUKelco Olifiold Group
AF Ollerat	Ol Welling Appen	6/0uls flor	Marguita Faulds
MF-Romete	Fig companyal projector	Buffaçe Active Agents	Marraids Fildele
MFVb	Xankhari pum	COTTOBION infliction	Marque Fluitz
M-I Ber	Fodia	Veccellers	O'groute Fluids
MH Conder Piber	Shredbed cadar filter	Weighting Materials	M-I Burgo/Federal
MH Ger	Wyoming bentonile	Loci Otroutation Meterial	M-I Swaco/Fedgral
ri I Oci Gupreme		Viconation	M4 Oveco/Tederal
M-I Lube 100	numering manual partonite	Viscosliere	M- Swedon Safaral
M-I Cool	General purpose lybricant	Lunderme	MH Owtgo/Federal
Mirca	Con for frecibled or William formations	Loci Charelon Material	M-I SwamvFoderal
Microx	Bized mice fisites	Losi Circulation Malerial	AN SHARWHADERS
Micronsin	MOSI DE GEO	Leaf Circulation Majoriel	
AS-Bor	Enhanced fearther density fluid	Syllene	Bamid
Vil Bar	Bartie	Weighting Materials	GTM2xx Botutlarus
MI-Care	Danie	Weighting Malarials	Michen
APCACO Sense	Sized pround carbonales	Leaf Orculation Maightal	Bahor Hughes Inleq
	Multiple gond size sextes of ground carponate	Lots Circulation Margnat	Paker Hughes Inter
MI-Green	water soluble, brodestracebie deleganizatiowach	Burlood Active Agents	Baker Hughes tracq
Mex	Co-polymer	Financians	Baker Hughes Inten
Mil-Fran	yegelapie oil tassed spotune fluid		Dedor Hughoo Inseq
MI-Gard	Sulphido copyongor - zinc carbonate	Lubrigania	Balter Hughes Inles
Mil-Gord R	Clustated zing I gnost florage	corresion inhabitor	Baker Hugnes Integ
Milan	Wyoming bonionite	Advinception (minibasca	Baker Hilghas Inleh
Milgol NT	Limindated wagming benjonite	Verasilan	Baker Hyphee Integ
Tijenalum Hoc	Disponsible polymer Topoldeni	Viacosifiers	Eaker Hughes Inlea
Mil-Luba	Vagalable oil lubricarii	Figazilanta	Millerium Yesterdopies LLL
MilMed	Non-abredure mice flates	Lubricano	Baker Hughes Inlen
MIPec	Lowerboard tegrilote	LOAR CITE (Billion Maleria)	Barrer Faugress (ming
MIPRELV	Low viscosity polysmionic cestyloge	Filmse Reducers	Baier Hughes Insen
MILLIAM		Filliain RATURATS	Opinor Huphon map
W/Seal	Elanded LGM gyesiable in three prind sizes	Loci Circulation Material	Baker Highes Inne
	CAMINGS CALM BARROWS IN TALSO DAUG STATE	Losi Circulation Motoriol	Lieker Hughes Inlea

MIL-SZOS	Hydrodized polyacrytemisks	Produtante	
MFBC8	Articolizani posyposytemido	Percoulante	Dahan Hugitam Intélo
Mil-Risert	Completed visit	Shelle Control in Digitors	Baker Hughes Integ
MIFYSITE	Suffingled styrens, maleic Enhydride on-palymer for water based muse	Filtrate Reducery	Baker HUDI se Iracq
Kilmini	Pure oil fluid lone payitus	Thinners, Departments	Braker Hughes Integ
MAII	Bended calcium carbonale & polymers	FIRDIO Reducore	Concord Cristing Fluigs
LAJLY 11	Ground cabuloes LCM & Dilibrary again.	LOCI Chuseium Material	MI Awartiffederal
Mon Pau	Premium polyenhol- negypee	Lost Circulation Macriel	Mil Swaco/Fudural
Mon Rac Ultraio	Premium polyanionių veikviose	Filesty Beduces	Mill insuling Salutions
MRQ 2100PS	Potassium Blinete bergd mud	Flitrain Parkippro	Ali/Flowline Surging
ITL Blo-Clear 2000	DON'TA	Systems	Margida Flidde
MTL Fabrida with	Deligener for loam systems	batriorigidae	Millerstant Touland Aging Ltd.
L Power Clean 2000	Manual Last Last Life SALIS	uktoamer	Millanium Technologius Lid
MTL Sturspaid	Alkafraytiyis day wassi Majhanarrindum	Shrifano Bellies Apports	Militarium Year fluingles Las
MTL Lilia Produc	8 cop surfaction abox	Ohsie Consul in plants	Miller Technologies Ltd.
MTL VIII JUNI	Fourtier agent	Surface Acilya Agente	Milienturo Technologies Lin
TTL Ulimming RA1		Francisco Armets	Millenham Technologies Led
TE Vitraecay 5000	Correson Inhibitur	Addition accounts	Libeium Fortesphaled Ltd.
Mud Flan	HZS ACHVERIGHT & committee inhibitor	Sarryeitan Inhibitor	Lationum Technologica Ltd.
MAN LIOC II D	HAWA among maaulam	Firmoulania	Discharge Lie.
Litud Lilia	Disparation reference florestens	Flocularis	Dri-Chern Sugary Ltd.
Mud-Pa:	Enhanced form surfactors	Surface Active Agente	Canamara United
Mul Fineme	Corresion inhibitor for extide leden packer (Lyte	CONTRACTOR INTERPOR	CIMps Salutions
Mulaparso	working a peril/chinal piller	emuk 7-er	Risker Humber Inleq
Natural Gel	Surfactani	Straug avilue aughuic	Sur Drilling Products
N-Dri HT Pius	Wyprelog bestunity	Viscostion	elpuborQ grilling mu2
New 107 Invest	Signification in the electrical significant in the	Fillrady Particols	^
New York	Call-free Invent	Sulforms	Beroid
	guid polyery late		Newpark Di Musy Pluids
New-1761	Liqued PHY A	Tim mera, Depersona	Raker Hughes Integ
Non-Orli Plus	PHPA	Shale Control Intibitors	Daker Hugher Integ
Newfcam	Burfsowni bland	Strang Countral inhibitors	Baker Hughes Intog
Ewinera Dreakor	Decamar in I/Am tysioms	Forming Agents	Nomes & Oilling Finds
Newpol	Wyoming contonic	delasmer.	Nounal Dalling Folds
Newlip	Lónics	Viscopaliare	Newpark Drilling Fluins
Newphpa LV	LMW disperdicio PHPA	Thinners, Olyses against	Newpark Driving Fluids
Plaw-Troi	Socilim Polyscrytele	Shale Control Inhibitors	Newpork Onling Found
Now-VIs	Organic polymer (right)	Filh the Reducitis	Rater Hughes Integ
	- Bear and bonding (Fig. 10)	V/s examinars	Clake/ Hustney feder

N Flow A	Xabir 4ii Dulli	14.	
N-How AE	(I)-Allie and breaker system	Vidux Onia	Namperk Dalling Flying
N Flow AC	Andrew estatement will breaker system	Polymer Ricottorn	A-Did
MG-5Uk	In-Piu Sodiaridaine broster eveters	Polymer bleekers	Partid
Novemed	Biend 6-u (ape poer is	Polymer Personal	Elamid
Navanul	disning myller	Ourleas Active Apprile	L AI
Novaptus	Primary smulatifur for synthesic givens	Vinnellog	MH SWADD/FAGUZI
Nova pro	LOW-Miscordy ID synthetic based must	circulation	ALI SWACE Federal
Noveles	Chefer-paso \$Vrill lette (1910	Systems	M-I Swacov-moeral
	AO base synthetic mud	Бужото	LLI Busecoffedero
Manarec R	LAQ boso (lui)	Systems	MH Swarps Federal
Noveling M	Low-end resource movillant	Drill Muci Base Pty(cB)	M-I Support odieni
NOVates: P	Primary constation in Parellet system	Viscons/fine	MH SWROFF GOERS
Nevathin	Thinner for gynthetic invertionmental of	CTILITS (18)	MJ SHOOM ederal
Nunghing	Mailing Affaul	Thinners, Disposante	
N Plax	Liquid alkating spill	Buritace Active Approx	MH Switz Peteral
N-Seal	Epocially formula 90 extrusion (galeng)	Lost Cirnitation Malena	ML Dwarp Federal
MEQUARE	Signal collision (New York of the Collision of the Collis	Lost Circulation Mutafail	Beroid
Nut Piug	Sleet cellings libers in a non-damaging polymer base	Link Carrutation Material	Deroid
No Sholl	Great History	Loss Ortulative Multiple	13950
NV g P Plus	Grainfi nulshalip	Lost Circulation Masset	M-I Swgoo/Federal
114220	Xunthannen-toric starti elifor filmid	TOO CATCHERING MICRORIAN	Committee for Innex
CETRIZA	Oli solithia resia polymor system	Viscosings.	Borord
O20st 2000	sacked of basic currentals	Losi Ciny Assino Maland	Of no Add Huids
	Mod (ed arganophilic play	cmikerer	MJ Sweco/Federal
Crisus/86	Omenic desidenter	Vinonelilors	Carrenges Linked
One #-Pletx	Denetari or organishes days	arriu/6l/let	Prine-Add Fluids
OMV-100	High partomanousmionic synulade Chin Independen	Dinners, Dispersants	FROID
Out-put	Crosnonile day	Viscoellers	Eaker Hyghog Islam
Ottobre Obstant	Primary gravitaties	Vierreitore	Canamer Color
Quine:	8 BCondary Annacion	emulatio	Nowpark Orlilling Fluida
	Oll mud warding Assettl	- Ormula Bor	Newpork Drilling Facids
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Oort Defuapler	ON Geolopic resin strong delosmor	Filtala Radiscore	The state of the s
Merin Scenarios (DB-IL)	Catalyzed appropriate Hydrate	CETOWNEY	Dilling Spacelles Co.
Pull	Polyanionis validane	COTTREAT Integrate	Canamers United
Pac-Q	Povenianie cellulase	Filtral@ Reducers_	MH SWGCO/Federal
Palcation	1 Ortournas deprieta	Fillrain Paducare	Persid
		Thitung	Earoid
		//414103	Verious

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	En whilling his Paralend system	·	
Paland	Emulation for Poreland system	<b>DRAMBE</b>	NAT BHOOST INSTITUTE
	Carrothorne (prycephonnic	omuletter	MH SHOOF Educal
Pathiya Car	Chrome Vergeuillonate	THE RES CHEDERAINS	Reed Chornosta
	Circrité-les Ignostifonals	Thirtness, Dispersents	Georgia Pacific
Physicx	ROP enhancer	Y (Hurses, LABORISANIS	Ceergo Pecific
Percipto	Autonic PolyBon/amide(PHPA)	Lundsonia	HOMAN STORAGE
Perform washill	Highly inhibitive disvines WOM	Puccutants	Boller Hughes Inless
Performax	High pariginance hylpitys Weil	Mucho/2	Cibe Specially Ottomicals
Реппексом НТ	Non-formersing polymersped starch	Jyalens	Earold
-crme-thinz	Chipman free barrosullonala	Filtrato Roducera	Paker Hughes Integ
PH-16	Pulled College Million Inchia	Tiel weurer, Dispersents	Paker Hughes Integ
Phanysaal	Supproyelem magnessum course	afcelinity pi√ sonirgi	Georgia Pacifiic
Fina Squi	Titeringsal (aminula	LOSK Circutation Material	Ering-Add Fluids
Proc Free Agent	Fibrous fisks and granular LCM	Line! Circulation Meterial	Flowline Solutions
Pipe Free Agent		Los: Giradador Marya	Bri-chem Bri-chem
Pina Lav	Spotling egent	Lubricards	Ortling Speciation Co.
Prov Out	Siuck pae Brusciani	Curtace Ayuve Apprils	Millersupy Lectinologies Ltd.
Plation	Spetting agent	CONTROL CANAN WOOLE	M-I (Divector Federal
Fixelex W	Starch System (1907) Lagetim Calcium Source	Eurface Active Agente	SRI-CORTO SUDON LIST.
Pluo-Dil	Anionic surface polive agent		vo/lous
Pagasi	Private and cardiar filter	I stretgante	MH Sweet/Federal
Plua-6	Sized roll water-coluble bridging	Lost Grundten Malerial	Beroid
Poldri	His justing - Iron Coorda	Loal Circulation Metorical	Bigne-Add Huida
Polheal	Polymer bland	Weighting Melenals	Bring-Add Fluids
	Priturner blessel	Visaceifigre	Dring Add Filling
Proty SICCH	Siénded I Con for vugulés à gavernous formations	Filiratic regoupers	Bring Add Fluids
Poly Flake	And A reina Boli cognigated Jakker	Lord Circulation Moreover 1	Constant Food Plants
Hy Phup Clear Clai	Rinnold last croulation plus	Losi Caudegouri Margrid	Canamera United
POLY SAM	FON-Windersoppyconludge Tiglias	Loss Circulation Malestal	Canamara United
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Polydnil	100% aprillingly fluidless additive	Filtrate Reguessy	AI
Fotypet	TVV V VIII (NO TO COST SOCIOVO	Filippie Meducara	Berod
Polytosa	0	Finoculanta	Conserve United
plypac (reg. UL)	Divines licent (SIRIN MAY)	PRUSM REQUESTS	JSB Resources Un
Polypar: R	Priyangriba cellulose	Wedge February	Concord Onling Fluids
Гоурас Ш	ALTH UTULE COUNTY	Filtrate Reguçars	M-I Stydon/Fadetel
Paly Plaus	Employer (must wish the wish one) y page	Filtrate Recipeora	M-I Sweed/Fodgrei
	Propriously liquid zairid of acdium poyabrylais, Illanosulfonate, Irgnito	Dentuilly eatendar	M-I SMOOT/Federal
		Designation AVIOLOGIC	104/ Tochnifluide

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Polyelus Res	Hydrokzaci polystry/amisio	Pirra denie	M.I Smanifederal
Polysec KD	Foldum Polyecrylota	Broadland landoo Signib	MJ Samo/Fodorol
Polyadar	Anti-accretion system designed for BAGD	Bostonika astender	American College
Poylex	Polymer, sixed carbonates	Dysterio	CINOX Solutions
Polytrin	Powder (hinner (Extreme randsions)	Ferralo Réducore	Drivo-Add Husas
Poh-Vs. II	Mixed everal hydroxide	Thinnes, Deperturity	Consmera United
Poly-Xan	Dispersible made sanihans 8727 gum	Vikrosillers	Carrena United
Potesh	Pétrapium chkarlab (roču)	Viguralijers	Canamara United
Potestum Formula	KCOOH (KCC)	Shale Control Inhibition	AN OFFICE
POTASSUM BOILES	Polaretum suifeAnied ashphali	STUB Curtiful Inhippore	Cathamara United
Poleoskim Buighage	KZROM KZROM	Shale Control Inhibitors	AMPIRING Specialities
Powerdri	Invibility WOM	Strate Corarg Inmonos	AT AT
Preparvetive		- Dysterne	
Prerio Seal C/M	Starch system (1867)		Newport Compagnition
Frimary Emulating	Blonded LOM	Logi Circulation Meserial	Canada
Proex	Cit mud bylingly emultillier	w is to fill by	Cansinara United
Pro-Flag	Palyaenyleis - PHPA bland	Bentertile cotonder	Supply Ltd.
Projectment M	Folyact//amida	Fluoriants	Public Mud
Protectionaggio LT	Water disparable actionary	Shale Central Inhibition	Nowpork Brilling Fluids
. P15-80	Distantianto suspension of all cividal actional	Shale Control inhough	Baker Hughte Ingg
Puredrill HT-90	HT polymer steb licer	Priymor Stabilizan	Raker Hugnes Integ
FURGINA PLE-40	FA Drenim becasing	Drai Must Base Hunds	MH Swarco Federal
Pumphi IA 35	linkensed minoral oil	Drill Mud Beta Ridge	Posenede
Fuerti MATIV	Syntholic hoalkana	Orti Must Grass (Turkly	Peroganana
Pured: II OE	Synthetic analismo	Tirl Mud Base Funds	Petrocampos
Pyro-lini	Synthetic ester bland	Drill May Base Purgs	Perrocanage
OM-12	Co-polymor scrytemide AMPS	Filtrare Reducere	Patrocanado
OM:12	FORBESON STOCKE	Digita Guntral Inhibitors	Bulyur Huynes Integ
C'MATE	Difference amulation for mineral Of liveres	orayis/Ser	C/Max Bolutions
UMUL POMERY	Secondary emulativer for mineral ortingerts	OLUMBIA OLUMBIA	CajMarx Spilitona
O'Mul Sprandary	Primary emulaility for OBMs	ournate.	Graphing XCM)
	Secondary emulsilier for Statute	CURISHAL CURISHAL	Q'M6x Solutions
Q'Sion	PAC	Falvale Radingry	GTMax Solutions
	SIZEd optiviose libor	The Made of the Control of the Contr	O'MAX GOLLYOUS
Caulida	Solide from non domesting soll lubins (lub)	Loss Countyling Material	CIMEx Solutions
Quik Foem	MOOGORADA (ORITING agent	Syclamo	Digrisa
Duk-Frag	Spotting fluid companitate	FOAmmay Agents	Barold
		Lubricants	Service .

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Quik-Gg QuikeMeri	High yield bestorsly	Viscodiare	
	SUSDBIRE On of concentrated views from		el <sub>et</sub> viki
Onte 100	Ferreshroma ingregul/careto	VISCOURTES Thinney, Planaranta	Parel
Dulk-trol	Organic polymer		\$Bluid
Oulk-Trel	Organic polymer	Shate Control add Alure	Barrie
Chick VIS	Hydroxya by cellulosa	ViscosiSare	Deroid
OVS L	Liquid palyment vincesitier	Viscosifiera_	Ç-SCA
GrWer	Ol willing agent	Viscostilers	CMan Supply of
Chrikthin CF	Modified sylfo-malhylatical quality	Bullet Aylys Agens	CIMEN Solutions
R.O.P.E.	Projekt übricani	Trimere Micromonia	AMT londi at Quiurions
acitacreson EME Salt		LUDIRATES	Sun Drilling Products
Plapidnii	Water-based grande Juhreant system	Listreante	Maryute Flates
Rebound	Perellent corpor beard LCM	Systems	Sun Delling Products
Robound Fine	Massiont carbon based LCM	Linet Circulation Assigned	Опчила Зресідняє Со.
Reg Floc	PI-PA	Cost Orcadelant Magazitat	Orthrop Special Set Co.
Real Pag	Programonie Cellulose	Plogeulante	Reef Driting Huga
de Polymer Plus	Copelymer of codium spylate & spylarities	Printer and Pluty luga control	Poor Drilling Flyida
Resinen	Hasheed John	- Roonlant	
Resinex II	Tech produced (prin	Fährte Reducers	MJ Swarp odore
Pharnod L	Monthled la llu acid	Filtrate Reducers	MAI Breequ/Fe36a
*ujeolia	Blanded polymer	Vikustier	Randi
Rhadopol 29 P	Billinged polymer	Vercellen.	PCSPORO
KOCGOOGI XCCO	Polyspechanda polymer	Viscosfiers	Bri-Cienti Supply Ltd
FOM 63	Polyspeonarida polymer	Viscosifiem	Ref-Chem Supply Ltd.
Number Crumb	Bend of letty acids	Visitedans	All-Clean Supply Lig
Cale Galy OM	Ground Rubbay	Loal Orcutation Actorial	Baroid
Safe Surio	Eligno of surfacilitation and solvenia	Ourface Active Augus	Caramara United
Serector	Bland of colvonic and surfaceants	Surfarsa Arylva Agente	MJ Swaco Federal
Sans-Carl)	Sized calcium carponate	Lost Circulation Material	MH Simply/Tradental
Safe-T-Cost	Gleod coletum cortionate	Winighting Naturies	M.I Swatco/Federal
Saf-Kote	Aming in blipr	COMPANIA INTERIOR	M4 despuiredpai
Set :	Amine type inhibitor	CONTROL INDUSTR	Bri-Chem Supply Ltd.
	Naci		Garagera United
Selt Water Gel	Processed depicate	Welleting Manager	All
	Ariapu dila	Viscosifiers	
Ser tricet Pill	Calcium our bong to polymer mystom	- Vaccasi et a	Rarge Hughes Integ
Серр	Sporum scid pyrophosphala	LARI Circulation Motorial	Driver-Add Filling
Sawdust	Bowdust	Trianers, Departments	All
-		Lost Circutesian Material	All

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STANSAGE .	Liquid some provention		
Start - N-Pearl	Fluid loss control pill	# # # # # # # # # # # # # # # # # # #	Daker Huphas Inlea
econdary Emulsifier	Oil mud servinglary expression	SYSTAMS.	MLI Sugges/Fadem/
Seperan	Powerylamide (Gel-Chem myd pyrlem)	dmelchor	Bri-Cham Supply Lin
Spr. Lep	Liquid polymant: wateridistor	- Duga kartis	Gal-Chem
Shale Bong	Water dispersion untake-glaenta	Viccosillara	ментыт Теспроюва Ud
Sheardri-N	Colide free moorfed polymor fluid pyeasin.	State Control Inhib lorg	Saker Hughes Inleq
Sivi	Prilosali im allicato artybilitys dallang fluid	Systems	Cus of C
Simple Seel	Cardium performing polymer system	5ystems	MI Swarp Foderal
- Carpteel	Dololum carbonale base workever cyclem	Loci Circulation Melerial	Detroit Acted Physics
Shart Stud	Glantal FCM	Féiraig Heallicais	Roma Add Fluids
301-1090	Synthetic tops of used in Cynteria evolum	Lost Circulation Material	Sun Driting Producte
Sindo Ash	A STATE OF COLUMN STORMS STORMS	Dag Muo dese Fluids	Chier Hughes brieg
Outure Chroman	Stellum Gathurage Ne2CrC4 F2Q	CONTROL PORTONOR	All
Scown Formula		was usion trivitation	
Sudaum Suripa	High yeard prine	Watgreing Materials	Carvarrera United
Sedium Sutchilo	HT polymor stabilizer	Pulymer Steb Izera	
Bullus	CXXQ at 1 activities de.	corrusion inhibitor	
Scheroo	Softern achphall gulphonale	Snale Control Inhibitors	All
3chufil-N	Sizeo Cil-eulubio resins	Loci Circulation Material	AUCHING Specialists
Salutiake	Rizori skii polymer system	64E DE MA	Distre-Add Fixed
Sub-Myon	Flehed celdum getrugsid	Lost Circulation Macorial	Barold
Sohi-Rojetex	CII 90felds routh base workever suid	FIGTERS Mediugers	Bakor Hughee Inter
Sciuss	Acid-scrubia high I bid feat LCM squage	Loss Circuspilon Motorrei	Brine-Add Fluida
Enonar Scot	Polymer & study metre	V/scoxilise	Baker Hughes Integ
ðcanan	Polyoster Helds	Lori Carritarion Meterial	Bring-Add Fluids
Sportova CF	Barila/Ramiri	Welghting Agent	Cangmara United
Statute K	Chroma-free lig vaulforary	Thirmore, Disperson in	NI NI
In Five a Suprame	Cationic organic multivation (Inhibitor	Glege Control Inhibitors	M-I SyssOc/Fed Bra
	LOW VISCOUTY PAC	Fire Podern	Al/Bo-othern Bussey Ltd.
Statio Regular	Polyment cables		Canangra/Hol mex
Sharritti	Tehnatryl Ammonium Chlukte	Flagge regreers Shale Inhibitor	Canaman/Holimex
Standard	Fliffailrer control LWD		Torandon
Signace	Adolfilled Staruti with blocking	rurele Reducera	<u> </u>
Виграк ОР	Non-inmention deductions atoms	Pilitago Floducera	Al
Electroni	Deal composition parate material	Filirate Reducers	AJ -
Stop-r/et:	Blandari CM	Loci Circulation Malarist	Barold
Bu Valera	Sultanaled legiphalit	Luni Circuladop Material	Baroid
		Stole Control Inhibitore	Duter Huches Inlen

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EVn CC	Coupled gisonile-based dispussion	State Cootrol Inhibitore	
Super Floc	Organic Potymor	Placeulanes	Sun Drilling Products
Super Sweep	Treated polypropolene (Lay	Viscovine	AI
Super-Qg	Extra high yield benjonia		Federal Wholosolo/Millenom
Bupartip	Lionto	Vient line	Deker Hughes Jalea
Superver 250	Not-joric water waiting agent	Thinners Dispensive	Consmars United
urt-Cole/Omal-Osia	Oil walking agent	Surface Active Apprils	Bring-Add Fluids
Steppe during	Omercubile viscosites for dis	amula(for	Baker Hughes Integ
Sweep Wale	Actions why alcood barillo for high density amount	Viscoplemo	Earoid
yried will Ca-do	Chlorida tras acrine jobility	Welching Marchills	Barold
Synamini FR.1	Agrylamida AMP8 co-polymer	Shale Control (phillips	All/Synerphem _
Syriechill PR-2	Sulfminated pain	Filipio Reducers	All / Symerchem
Synering (L4II	Poly DADMAC	Filipio Paducers	All / Synerchem
уча <b>то:</b> D7 [16]	Caponic Co-polymer	Florentants	AL/ Symproteons
Synoritor PALSO	Polysmine	Flooridane	All/Synarchem
Symerica	Xan han guar alande	Finantenia	All Synershore
Evnerflow 2	Standuran	Viscosigra	Synerchem
Sys resilvant	Surfacean bland	Vieodé liers	Synargham
Bygortilo K6	Polandum formate	Feeming Agents	Synerchem
Sminishu	MWH.	S/18/6 Control inhibitors	Allagyngrotism
Syneranaca		Viscositions	Syngrohem
YIMP RIVER DEL 35-50	Liquid/dry LMM polymers	Inners, Dispensers	All/Dynarchem
Synadhin EX	Liquid ThinhAr polyacrylate	Thinners, Dispersants	Al/Synerchem
SAFISITIVE	Pomer Vereror polycu slate	Thinners Dienersons	All/Egraction
Synanie L	Giar pum	Vacuation	A/Synerchem
Synanian	Chargem Hould	Vicandian	AME ymarchesia
Renanan D	X860an gum	Viacostore	AVSvnerchem
Dynexa) L	Diaperable senthan gum	Viacoaliera	AlfSynerohem
Syntheria	Xânthan Kodd	Vercostilen	All Syneronem
Y-362	Low vicensity ayrehalls alotted isomer critical field	Systems	AWSynerchem Beller Hughes Injus
Tannax	Gitteracthyda	bectericides	Amitte Hollands lutted
Tar-Cload		Throper	
Тептован Тептовия	Alle-tocration for hillimen	Surface Active Agents	AI
	Suspension agent for oil based end synthetic must	Viscosifiera	M4 Swaco Federal
n Datement 20L	PVB (81-501UDIE, bicclears (13b) 6 datement/rinyesh	Burition Active Agents	Beroid
Tag Fine RD	High mot Wt. Anients dispersible PHPA	FIDERIAL ACTION	Baker Hughos Inten
Tog-Thin Thoma Check	Chrome-free lichosulfungto	Thermary, (Aspensary)	Balair Flyghes Intoq
Nerma Lhack	Editoria: hit signate reckippr	Filitate Reducers	Baker Hughes Inter
_		FINITIONE POSSIDIONE	Bereld

Therena Vily	Extreme nigh bentenhic columber	Viscosifiera	Bardd
Therrepay U	Cartioxymalkyl stanth	Ritrate Reducer	M-I Swepo/Fedoral
	Driverno high-tomp redupendapersons	Thirners, Dispersans	Barold
TREUINBUIL	High lemperature stabilizer	Polymer Sinbergs	
Thikquite	No fish-eye assistance HEO	Viscoelferts	Drine-Adul Fluida
Thitiquin-L	LIGUIG CLADERSON MEC.	Viscosition	9rho-Add Fluide
Thir_Tex	Modified ligneoutphone to	Thirmers, Usipersonis	Brinomal Faata
Thinzit	Oll muid disconsent	Thinsers, Dispersors	Construent in Second
Thur	Blond of polymers		Curate of Drivings Players
ThisePak	Sightized thisomore polymers	VISCOS ROTS VISCOS FOR	Ridna Bridge
Thises	Polymer blend for everyonding microsized self.		STITU-Acid Muldis
Tortuses	Non-toxic Aubitcating agent	Viscosifers	Enno-Add Fluide
Torq 2000	Han-forming regolable at - based worken)	Lubrisianty	AD
Torq Regular	Liquid lubricant	LUbricanta	Canamam United
Trenycalinia	Non-losming aether beged lubricant	Labricante	Dri-Chein Signiy Litt
TOTO-LULE	Liquid Gived-base	ADTCAOTS.	Consmore United
Trienge Trient II	Alocad Arride	Lybridgenia	Constructor Utilied
Terq-Troi II	Sulonsied venesible of	Lutingants	Rarold
Tomus loca	Fridian reducing place beads	Lubricente	Cattamera United
TROO		Lubricanys	Carold
Transtoam	Sullonalad vapabina nil	Lubriconia	Dri-Chem Supply Lift
Tdmulau	pM controlled from system	Systems .	Weatherford
Trimutao	Of in water emits liker	Cornado Piga	Barrio
Truckii	Oil in water enuisitier	Surface Adive Agents	Barod
Truvia	All oil CBM	Systems	M-I ON HAR FEEDERA
T8001	People yield organiphilis stry	Viscoslitere	M-I Swaco/Fedoral
Turbolink	Lignosukonaja complex	Filtrato Reducero	Brew-Auto Fluide
Turbovia	Liquid polymor mud system	SVSIems	Newpark Prilling Fluids
TYDAR	Liggle polyspocharide polymer	Wecoelfera	
Utra Seel C	Hydroxyothel Callulate	Viscopilers	Newscalt Dritting Fluids Clorism
	Coarse pround cellulose	Lost Circulation Metarial	- CONSTR
line Seel Plus	Medium ground relitilees	Luci Circus Ilon Malenal	
Ulifo Geal XP	Fine ground coluloss	Loat Circulation Melorini	AI
Ultribreck M	Internal propings for filler coke	Polymer Breakers	
Ullracap	Palymenc shallo mhillison	Shale Control Inhibitors	BAne-Add Fluid;
Ulfraditi	High performance WEM		M-I 8-sup/Tedenal
ilragilda Bişadə	UNITED BENZONG STYFFING CO-DOLYMEN	Systems	NI Swarp Forest
Jiragida XI.T	Non-foaming liquid	Lybricanta	Malija du n ) jeda rotogos Lid
		Librarits	Millerium Technologica LM

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Mirrhib	Shale Inhibitor	Shale Control Inhibitors	
Unio	Chrome Igness forces		M-I Byace/Foderal
Linksi CF	Chromo -free Parposulfonate	Thinners. Dispersents	Baker Hubbes tries
Unifoam	Symprofit II Burtaclars hierd	Thirman, Dispersons	Better Hughes Integ
Dripec	Polystrignic Colluloss	Footning Agents Faldings Backgroun	Conport Dolling Huide
Unard	Mod/fied starch		Verious
Valler I/ID	Bezilum pluminosticzno	Filtreta (taducera	MH Swact/Fedoral
Verietal	Blended CCM	CRICium romaver	Mational Billiagnes
Verterinan	Mineral oil CaCIZ OBM	Lost Organion Material	Millerium Technologias Led
Vorassicon D	LOW looking SEFT: house rate	Systems	M-I SympoofFudery
Vériacoal	Elsended omutation and getting appeni	Orlin Murd Dates Pluids	MH Swaco/Federal
Versadril	Diesel calcium chinaka OAM	CITUIRINA	M-I Breaduiff scheral
Vprsevinti E	Placel & diny mineral selle	Systems	MH SWBOO/Federal
Veraehrp	Liquid Viscositier & pellent for de muris	Drill Milet Rane Fluids	M-I Commo/Federal
Yer Salio	Modified inguite	Viscouviers	M-I Swano/Federal
Versemec	Enulaties for high-billio content fluid	Filtrato Reflucies	MH Qwesty/Testeral
Versamed	Viscosity modifier	Cmulater	M- Swarp Finland
Versamod	Low shear rate modifier for pil mude	Sitt diller	M-I Droggy where
Versamul	Mindred gol group latter	Mesosifiers	A-I SWICT/FATAISI
Verespec	Thermaliv ad valed provide Introleyee	diriubiliar .	M-I Dwaco/Federal
Verseom P/S	Primary amulation for Vennepro ayasson	Yiecosiliq/5	DLI SWSCO/Federal
Vorge (Fair)	OV mud disparsa	pmilsiler	M-I @wego/Tederal
Versatrol	Haturety occurring precitio	Thirmors, Cirille 1921 165	W-I Switza Fariara
Versawet	Dil wetting agent for all muds	Filmin Reduces	MH Owaco/Pederal
Versame!	Welling agent	Emulsifier	M-I Sweet of Feel wall
VQ Expreme	Creation III, day	Surreya Arthur Apponte	M-I Dwarpo/Federar
VG89	Organisaphilist clay	Viacoolfiors	M- Swaco/Federal
Viscon	Viscositying Colymer blend	Viscoufing	M-I Bestco/Federal
VIRDITIK	Tribiotropio viacostylno polymer beng	Viocentifica	Concord Drilling Fluids
Volciny	Heriooffe	Viscosvilen	Consure On the Flats
W C Delgam	Alcohol boced defauther	VISCOSISO/5	American Colleids
Without Hulbs	Ground Walturi shalls	delnemer	Baker I tughoo lirihay
pcheroam 104	Polymer recyclabio fourn eyelem	Loci Circulation Material	Ali
Wordte Onk	Sized spit for density and fluid loss control	Byssama	Westherford
West Zyme A	EAsymo breaker with bloode	Weighling Materials	Barra-Ada Histor
Wellzyma AG	Enzyme breaker with block do	Folymar Firedicors	M-I Dwood Fnogral
Western Poly	Polyothylano flasa	Polymer Greakers	M-I Swaco/Faderal
	- A Louis (take	Los Circulation Material	Denamena United

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	β. Amirolled form	smuls file-	Bil-Cham Aunply Let
WF14C-100	UDD Intelligen	Froaming Agents	Washe lord
W) T-O-200	UED IntilNion	gerradian inhibitor	Weetherland
WFT-C-abr	UDD hid Mily	united on introduce	Weat writing
WIT-0-400	UBD Inhibitors	gorranian invitator	Weeklerions
WFT-DF-106	Onloamer for traffichers system	corresion inhibitor	Westherford
WFT-DF-I	Dalpamer for non-recycle his toam system	deformer	Weelberlood
WET-DT-1D4	Pelcamor for 104 barn system	QQQsmar.	Weatherford
WFY-F-100	Non-Michael from	delopmer	Westperford
VFT-F-104	Distribution (CBM)	- Caming Agenie	
WFY-HP-104	Biended europagy	Framing Agents	Weatherford
FT-Dil Foam 2002		Veicosniera	Wealtherten
WFT-PT-104	Forming apprix (s) us	Fooming Agents	Washerland
VYL 100	Louid Diendert PAC	Viscosi lere	Weatherford
W0 20	Bedlum polya-ytete	FIRMS Padvoors	Weatherland
WOZIL	HYDROYACITY OBJUIDER With resichen parborate	Viscoeiters	AV Kelpo Calland Riman
Wyamine Gel	Ligurd REC	Vecesion	Beker hugnes intau
X Pekg	Sodium monimorillantia	Vectore	Daker Hughas Inleg
Xendria	Tresser gliper (les	Burfeso Adilyo Aperily	Osnamarano (Azas
X86-Pax D	Semecompanible sanipum gam	Viscosition Approx	Al/Kalen Oliticia Group
Kanthan(Krilgen)	Plantity disparaible xenthan yurn polymer		Bri-Chore Supply Ltd
Zanvis	KANFON DUM	Visadully s	Haker Hughes Inled
Xema L	Giantiad Kanthan gorn	Viscolifiers	
X-Cide 102W	Little clanified yearing green	Viscosifiers	Al/Kelco Onfinin Group
X-Cide 307	Winterteed Glussalitetratic	Vaccositeux	AL/Kefoo Orlfady Group
XL-Deloamér	SUNSZOIOUS-DRAG MONTAL DOUGLE	bácterlajata	Bisker Hughes Integ
X-Look	High Molecular Weight Austral Surgicians	Dacientidas	All
XLR-Rate	Cross-light polymer with blonded LCm	deloamer	Constructe/Holimov
X-0-4 G	ROP enhance	Less Carrolation Malarci	Clarker riughes integ
	resided piletrella	Lubiconia	Earnet
(107)	Beneraho expendes	Share control inhibitors	Allikalea Oliffeld Graup
Zeonel	Afteniple predor	Viscoetter=	Mudm Services
48IAD /117	Uguid estionic controleut	Viscositiere	Beroid
Zátpg 7107	LIGHT DW mol W. Callante ensember	Figoarlants	ALL CLEA specially chemics
Çeleji 7567	HAMV charge entronic pulyary yiel plos	Flocculants	All / CIBA apoclaky clear-test
Zpieg 7687	THEY MEDIUM CHARGE Extingle polycom to make	Floctulents	All 7 C/BA (Dectally revenients
Z8lan 7602	Very HMW medium charps callotte pulyacrysmigs	Flocoulants	At / CIBA approacy (Theritode
	A PER CANONE PROCESSES	Ficondanie	All / CIBA specially chemicals

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# MATERIAL SAFETY DATA SHEET

#1700, 407 2<sup>ND</sup> STREET S.W., CALQARY, ALBERTA T2P 2Y3 TELEPHONE: (403) 269-2242 FAX: (403) 269-2251 1-613-996-6666 - CANUTEC - Transportation Emergency 1-888-243-9771 - ChEx38 - Chemical Exposure

## KIM MUD

# SECTION I: IDENTIFICATION OF PRODUCT

Product Name: KIM MUD Chemical Family: Blend of polysaccharide polymers, calcium carbonate, calcium lignosulfonate. WHMIS Classification: Not controlled Workplace Hazard: Not applicable

Product Use: Viscosifica TDG Classification: Not regulated Packaging Group: Not applicable PIN: Not applicable

# SECTION II: HAZARDOUS INGREDIENTS

Ingredients

Percent

CAS Number None

LD<sub>50</sub> (Species/Route)

LC20 (Species/Route)

SECTION III:	TOXICOLOGICAL PROPERTIES	_

Route of entry:

Skin

Lye Contact

Ingestion

Effects of acute exposure: Treat as nuisance dust. May cause mechanical irritation to the skin, eyes, and respiratory tract.

Effects of chronic exposure: No effects expected

Exposure limits: Not applicable

Irritancy of product: Irritam to skin, eyes and respiratory tract.

Sensitization to product: Not determined

Carcinogenicity: Not determined

Reproductive toxicity: Not determined

Teratogenicity: Not determined

Mutagenicity: Not determined

Name of toxicological synergistic products: Not determined

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#### KIM MUD

## SECTION IV: FIRST AID MEASURES

Skin contact: Wash skin for 3 minutes with soap and water. If irritation develops or persists seek medical attention.

Eye contact: Rinso eyes with water for 15 minutes. If irritation develops or persists seek medical attention.

Inhalation: Remove to fresh air, if not breathing, administer CPR. Seek medical attention.

Ingestion: Give victim I-2 glasses of water. Do not induce vomiting. Seek medical attention.

## SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: Dry Tan Powder, Odorless

Odour threshold: Not applicable

Specific gravity (°C): 1.85

Vapor pressure (mmHG): Not applicable

Vapor density (Air=1): Not applicable

Evaporation rate: Not applicable

Boiling point (°C): Not determined

Freeze/Melting point (°C): Not determined

pH (%): 7.5 (2.0% Slurry)

Co-efficient of water/oil distribution: Not applicable

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KIM MUD

# SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not applicable

Means of extingulahing: Water, Water fog, Foam, chemical and CO2

Flash point: Not applicable

Upper Hammable limit: Not applicable

Lower flammable limits Not applicable

Auto-ignition temperature: Not applicable

Hazardous combustion products: Not applicable

Explosion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Not applicable

# SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Steble.

Product incompatible with: Strong Acids and Oxidizing Agents.

Conditions of reactivity: Not known

Hazardous decomposition products: COx

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#### KIM MUD

## SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Suggest MIOSH approved dust mask; nulsance dust. Suggest chemical resistant gloves and safety glasses.

Specific engineering controls: General mechanical ventilation.

Procedures for leak/spitts: Vacuum or sweep-up if dry. If wet, pick up with dry material such as sand or dirt. Avoid flushing with water as material may become extremely slippery.

Waste disposal: Dispose of material in accordance with local ordinances. Landfill is suggested.

Handling procedures and equipment: Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact.

Storage requirements: Not applicable

Special shipping information: Not applicable

## SECTION IX: PREPARATION

Date updated: March 28, 2007

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

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# MATERIAL SAFETY DATA SHEET

#1700, 407 2ND STREET S.W., CALGARY, ALBERTA T2P 2Y3 TELEPHONE: (403) 269-2242 FAX: (403) 269-2251 1-613-996-6666 - CANUTEC - Transportation Emergency 1-888-243-9771 - ChexxS - Chemical Exposure

#### **Q'CLEAN**

## SECTION I: IDENTIFICATION OF PRODUCT

Product Name: Q'CLEAN Chemical Family: Petroleum Hydrocarbona WHMIS Classification: B3;D1B,D2B Workplace Hazard: Combustible liquid, poisonous

Product Use: Oil mud product TDG Classification: Not applicable Packaging Group: Not applicable PIN: Not applicable

Material /

## SECTION II: HAZARDOUS INGREDIENTS

i næreði en tæ

Mixture of Petroleum Hydrocarbons

Percent 100

CAS Number 64741-44-2

LD<sub>50</sub> (Rat/Oral) >5 gm/kg

LC<sub>50</sub> (Rat/Inh) 1.72 mg/L 4 hrs.

# SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry:

🖾 Sklu

☑ Eye Contact

☑ Inbalation

Ingestion

Effects of acute exposure: Not applicable

Effects of chronic exposure: Not applicable

Exposure limits: Not applicable

Irritancy of product. Irritation, defatting and drying of skin. Prolonged exposure to skin may cause chapping, cracking or possibly dermatitis. May cause irritation, but not permanent dernage inhelation of vapors of mist will cause headaohea, nausea. dizzlness and intoxication; severe central nervous systems depressant.

Sensitization to product: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

Teratogenicity: Not available

Mutagenicity: Not available

Name of foxicological synergistic products: Not available

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#### **Q'CLEAN**

### SECTION IV: FIRST AID MEASURES

Skin contact: Remove contaminated clothing - launder before re-use. Wash with susp and water. Discard saturated leather articles.

Eye contacts Copious warm water flush - 15 minutes. Physician assessment mandatory.

Inhalattun: Pvacuate to fresh sir. Apply cardio-pulmonary resuscitation if required. Administer oxygen if available. If resuscitation is required, physician assessment mandstory.

Ingestion; DO NOT INDUCE VOMITING. If vomiting - take care to prevent aspiration. Give 250 ml (½ pint) of milk to drink. Liquid paraffin may slow gastric absorption. Give activated charcoal tablets only if prescribed by physician. Physician

#### SECTION V: PHYSICAL DATA

Physical state: Liquid

Appearance and odour: Clear and colorless hydrocarbon odour.

Odour threshold: Not applicable

Specific gravity: 0.90

Vapor pressure (mmHG): < | kPa

Vapor density (Air=1): 4.5 (approximately)

Evaporation rate: Not applicable

Builling point (°C): 204 - 371°C (approximately)

Freeze/Melting point (°C): Not applicable

pH: Not applicable

Co-efficient of water/oil distribution: Insoluble

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**Q'CLEAN** 

## SECTION VI: FIRE AND EXPLOSION DATA

Conditions of fiammability: Will not occur under normal conditions. Treat as flammable liquid.

Means of extinguishings Foam, dry chemical, water spray, carbon droxide for small fires. Do not cut, drift or weld empty containers.

Plash point: 94°C

Upper flammable limit: 6% by volume

Lower flammable limit: 0.7% by volume

Auto-ignition temperature: >225°C

Hazardous combustion products: CO,, So,, smoke.

Explusion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Not applicable

### SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable.

Product incompatible with: Strong oxidizing agents (strong acids, peroxides, and chlorine)

Conditions of reactivity: Excessive heat, sources of ignition, formation of oil mist.

Hazardous decomposition products: Cox, Sox, smoke on combustion.

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**Q'CLEAN** 

### SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Up to 5 mg/m3 (oil mist) none required. From 3 to 50 mg/m3, use an approved organic vapor respirator suitable for oil mist in areas with sufficient oxygen. Above 50 mg/m3, use full-face air-supplied or solf-cuntained breathing apparatus. Chemical goggles if splashing is fikely. Natula, Viton Chemical resistant clothing, if direct contact with liquid likely. DO NOT USE NATURAL RUBBER or PVC (Polyvinyl chloride)

Specific engineering controls: General ventilation. Use explosion-proof mechanical ventilation suitable for group D

Procedures for leak/spills: Avoid contact. Use full protective equipment and breathing apparatus. ELIMINATE IGNITION SOURCES. Contain spill. Absorb with inert absorbent such as dry clay, sand or diatomsecous earth, commercial sorbents, or recover using electrically grounded explosion-proof pumps. Place absorbent in closed metal contamers. DO NOT FLUSH TO SEWER.

Waste disposal: Incincrate at licensed waste reclaimer facility.

Handling procedures and equipment: AVOID SKIN CONTACT and INHALATION. Practice good personal hygiens. DO NOT SIPHON BY MOUHT OR USE AS A CLEANING SOLVENT. Launder work clothes frequently. Allowable exposure of 5 mg/m3 (oil mist) when handling.

Storage requirements: Store in cool, well-ventilisted area. Electrically ground/bond during the pumping or transfer to avoid static accumulation.

Special shipping information; Not applicable

#### SECTION IX: PREPARATION

Date updated: January 1, 2005

Prepared by: Product Safety Committee

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# MATERIAL SAFETY DATA SHEET

#1700, 407 2<sup>ND</sup> STREET S.W., CALGARY, ALBERTA T2P 2Y3 TELEPHONE: (403) 269-2242 FAX: (403) 269-2251 1-613-996-6666 - CANUTEC - Transportation Emergency 1-888-243-9771 - ChexSS - Chemical Exposure

#### STABLE K

## SECTION I: IDENTIFICATION OF PRODUCT

Product Name: STABLE K Chemical Family: Amines WHMIS Classification: D-2B Workplace Hazard: Skin and cyc irritant

Product Use: Shale stabilizer TDG Classification: Not applicable Puckaging Group: Not applicable PIN: Not applicable

## SECTION II: HAZARDOUS INGREDIENTS

Ingredients
Organic Amme

Percent 30-60

CAS Number 124-09-4 LD<sub>50</sub> (Species/Route)

LC<sub>m</sub> (Rat/Inh) 1400 -2800 mg/kg

## SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry:

Sidn

Eye Contact

Inhatation

M Lagestion

Effects of acute exposure: May cause slight irritation and/or redness, respiratory irritation, nausca and vomiting

Effects of chronic exposure: Prolonged exposure with skin may cause burning

Exposure limits: Not applicable

Irritation of product: Irritation of respiratory tract irritation on skin develops slowly after contact. Eye irritation develops immediately upon contact. Ingestion of liquid may cause gastrointestinal distress, irritation and possibly nauses with vomiting

Sensitization to product: Not known as a sensitizer

Carcinogenicity: Not considered to be a carcinogen

Reproductive taxicity: None known

Teratogenicity: Not known as a tetratogen

Mutagenichy: Not known as a mutagen

Name of toxicological synergistic products: None known

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STABLE K

### SECTION IV: FIRST AID MEASURES

Skin contact: Wash thoroughly with soap and water

Eye contact: Flush immediately with plenty of water for at least 15 minutes. Get emergency medical aid.

Inhalation: Remove victim to fresh air, and if needed give oxygen if breathing is labored. Get emergency medical aid.

Ingestion: Do not induce vorniting. Give 2-4 glasses of water to drink

### SECTION V: PHYSICAL DATA

Physical state: Liquid.

Appearance and odoer: Liquid, clear solution, odourless

Odour threshold: Not available

Specific gravity: 1.06

Vapor pressure (mmHG); Not available

Vapor density (Air=1): Not determined

Evaporation rate: Not available

Boiling point (°C); >100

Preeze/Melting point (°C): Not applicable

pH: 9-10

Co-efficient of water/oil distribution: Not applicable

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#### STABLE K

### SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Does not burn or support combustion.

Means of extinguishing: Dry chemical, carbon dioxide, water

Flash point: >100 °C

Upper Cammable limit: Not applicable

Lower flammable limits Not applicable

Auto-ignition temperature: Not applicable

Hazardous combustion products: CO, CO2, oxides of nitrogen

Explosion data-sensitivity to mechanical impact: Not known

Explosion data-sensitivity to static discharge: Not known

#### SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable.

Product incompatible with: Strong uxidizing agents

Conditions of reactivity: None known

Hazardous decomposition products: Smoke, ourbon dioxide, carbon monoxide and oxides of natrogen are produced from fire

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#### STABLE K

# SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Use chemical goggles or full face chiefd. Chemical resistant gloves. Use of an organic vapour type respirator is advised.

Specific engineering controls: Local exhaust in enclosed areas

Procedures for teak/spills: Small spills, pick up with absorbent material. Large spills, contain with dikes, pick up with vacuum truck.

Waste dispusal: Pollow applicable local, provincial, federal regulations.

Handling procedures and equipment: Avoid ingestion, Practice reasonable caution and personal cleanliness. Avoid skin and cyc contact.

Storage requirements: Store in a cool, dry, well ventilated place. Keep container tightly closed and away from incompatible materials

Special stripping information: Not applicable

## SECTION IX: PREPARATION

Date updated: April 01, 2005

Prepared by: Product Safety Committee

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MATERIAL SAFETY DATA SHEET

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#### STARPAK DP

# SECTION 1: IDENTIFICATION OF PRODUCT

Product Name: STARPAK DP Chemical Family: Modified starch WHMIS Classification: Not applicable Workplace Hazard: Not applicable

Product Use: Fluid loss reducer TOG Classification: Not applicable Packaging Group: Not applicable PIN: Not applicable

## SECTION II: HAZARDOUS INGREDIENTS

Ingredients None

CAS Number

LD<sub>su</sub> (Species/Route)

LC<sub>50</sub> (Species/Route)

# SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry:

🗵 Skin

☑ Eye Contact

inhatation

⊠ Ingestion

Effects of acute exposure: May cause mechanical irritation of the eye. Will irritate gestrointestinal tract and respiratory tract.

Effects of chrunic exposure: Not applicable

Exposure limits: Not applicable

Irritancy of product: May cause some minor irritation due to dust drying skin, minor britation to the eyes, gastrointestinal tract irritation. May be irritating to mucuus membranes of nose, throat and upper respiratory tract.

Sensitization to product: No information available

Carcinogenicity: No information available

Reproductive taxicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Name of toxicological synergistic products: Not applicable

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#### STARPAK DP

## SECTION IV: FIRST AID MEASURES

Skin contact: Wash affected area with soap and water.

Eye contact: Flush tyes with water for 15 minutes and seek medical attention

Inhalation: Remove patient to fresh air.

ingestion: Dilute by drinking large quantities of water and seek medical attention.

## SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: Solid off-white powder; starchy odour

Odour threshold: Not applicable

Specific gravity: Not applicable

Vapor pressure (mmHG); Not applicable

Vapor density (Air=1): Not applicable

Evaporation rate: Not applicable

Boiling point (°C): Not applicable

Freeze/Metting point (°C): Not applicable

pH: 9,0-9,5

Co-efficient of water/oil distribution; 100% soluble in water.

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### STARPAK DP

# SECTION VI: FIRE AND EXPLOSION DATA

Conditions of Cammability: Dust and air mixture may be explosive.

Means of extinguishing: Use media suitable for packaging and aurrounding fire.

Flash point: Not applicable

Upper Hammable limit: Not applicable Lower flammable limit: Not applicable

Auto-iguition temperature: Not applicable

Hazardous combustion products: Not applicable

Explosion data-sensitivity to mechanical impact; Not applicable

Explosion deta-sensitivity to static discharge: Not applicable

## SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable

Product incompatible with: Strong oxidizing agents.

Conditions of reactivity: Not applicable

Mazzardous decomposition products: Oxides of earbon

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#### STARPAK DP

## SECTION VID: PREVENTATIVE MEASURES

Personal protective equipment: Use an NIOSH approved dust filter. Suggest plastic or rubber. Suggest the use of goggles when handling.

Specific engineering controls: Local exhaust ventilation is recommended for control of dust.

Procedures for leak/splils: Use appropriate safety equipment. Avoid all bodily contact with spilled material. Small spills, sweep up and either recover to dispose in approved containers. Large spills, shovel and sweep up for reclamation or disposal. It is suggested that recovered material be reclaimed for reuse. Do not allow material to enter storm sewers or storm water inlets.

Waste disposal: Dispose to conform with local disposal regulations. It is the responsibility of the user of this product to determine at the time of disposal whether the product meet criteria for hazardous waste. This product lends itself to recovering for reclamation if spilled.

Handling procedures and equipment: Avoid ingestion. Do not breathe the dust. Wash thoroughly after handling. Practice reasonable caution and personal cleanliness. Launder exposed clothing before reuse. Avoid practices which produce dust.

Starage requirements: Store away from sources of ignition. Store in dry well ventilated place. Avoid damp or wet conditions that could lead to spoilage.

Special shipping information: Not applicable

### SECTION IX: PREPARATION

Date updated: April 01, 2005

Prepared by: Product Safety Committee

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## MATERIAL SAFETY DATA SHEET

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#### KELZAN XCD

# SECTION I: IDENTIFICATION OF PRODUCT

Product Name: KELZAN XCD
Chemical Family: Polysaccharids gum
WHMIS Classification: Not applicable
Workplace Hazard: Not applicable

Product Use: Viscosifier TDG Classification: Not applicable Packaging Groups Not applicable PIN: Not applicable

## SECTION II: HAZARDOUS INGREDIENTS

Ingredients Xanthan guin

Percent

CAS Number 11138-66-2

LD<sub>m</sub> (Rat/Oral) >5000 mg/kg

LC<sub>30</sub> (Species/Route)

## SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry;

🗵 Skin

Eye Contact

■ Inhalation

**⊠** Ingestion

Effects of acute exposure; Dry powder may cause irritation of skin. Prolonged exposure may cause drying or chapping of the ekin.

Effects of chronic exposure: Not applicable

Exposure limits: Not established

Erritancy of product: Excessive inhalation of dust impedes respiration due to hygroscopic properties.

Sensitization to product: Not applicable

Carcinogenicity: Not available

Reproductive toxicity: Not available

Teratogenicity: Not available

Mutagenicity: Not available

Name of toxicological synergistic products: Not available

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## KELZAN XCD

### SECTION IV: FIRST AID MEASURES

Skin contact: Flush with plenty of water. Remove contaminated clothing.

Eye contact: Flush with plenty of water. If irritation develops, call a physician. Remove contact lenses. Remove contact lenses. Remove contact lenses.

Inhalation: None anticipated. Remove to fresh air. Call a physician.

Ingestion: Essentially non-toxic. Contact a physician or poison control center for advice.

### SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: Light beinge powder, slight odour.

Odour threshold: Not available

Specific gravity: Not available

Vapor pressure (mmHG): Not available

Vapor density (Air=1)! Not available

Evaporation rate: Not available

Boiling point (°C): Not available

Freeze/Melting point (°C): Not available

pH: Approximately neutral

Co-efficient of water/oil distribution: Not applicable

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**KELZAN XCD** 

# SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not applicable

Means of extinguishing: Dry chemical, alcohol foam, water fog, and CO2.

Flash point: Not applicable

Upper flammable limit: Not applicable

Lower flammable limit: Not applicable

Auto-ignition temperature: Not applicable

Hazardous combustion products: Carbon dioxide, carbon monoxide

Explosion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Not applicable

### SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable.

Product incompatible with: Strong axidizing agents.

Conditions of reactivity: Combustible dust in the finely divided and suspended state.

Hazardous decomposition products: Carbon dioxide, carbon monoxide from thermal decomposition

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#### KELZAN XCD

# SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Suggest NIOSH/MESA approved dust mask.

Specific engineering controls: 10 changes per hour suggested.

Procedures for leak/spille: Sweep-up spilled material and repackage. Hose spill area very thoroughly. This product becomes very slippery when wet.

Waste disposal: Handle as non-hazardous material

Handling procedures and equipment: Product becomes very slippery when wer. Wash thoroughly after handling. Keep container closed. Exercise caution in the storage and handling of all chemical substances. Use in ventilated area.

Storage requirements: Product becomes very slippery when wet. Wash thoroughly after handling. Keep container closed. Exercise caution in the storage and handling of all chemical substances. Use in ventilated area.

Special shipping informations Not applicable

## SECTION IX: PREPARATION

Date apdated: April 1, 2005

Prepared by: Product Safety Committee

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# MATERIAL SAFETY DATA SHEET

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#### **XANTHAN GUM**

## SECTION 1: IDENTIFICATION OF PRODUCT

Product Name: XANTHUM GUM Chemical Family: Polyseccharide Polymer WHMIS Classification: Not controlled Wurkplace Hazard: Not applicable

Product Use: Viscosifier TDG Classification: Not Regulated Packaging Group: Not applicable PIN: Not applicable

# SECTION II: INFORMATION ON INGREDIENTS

Ingredients Xanthan Gum

Percent 100%

CAS Number 11138-66-2

LD (Species/Route) Not available

LC<sub>50</sub> (Species/Route) Not Available

## SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry:

🗵 Sidn

Eye Contact

M Inhalation

Effects of acute exposure: Hazardous in case of thin contact (irritant), of eye contact (irritant), of ingestion, of inhabition.

Effects of chronic exposure: Repeated or prolonged exposure is not known to aggravate medical condition.

Exposure limits: Not available

Irritancy of product: skin and eye irritant.

Sensitization to product: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

Teretagentaity: Not available

Mutagenicity: Not available

Name of toxicological synergistic products: Not available

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### **XANTHAN GUM**

### SECTION IV: FIRST AID MEASURES

Skin contact: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollicit. If irritation persists, seek medical attention. Wash contaminated clothing before reusing. Serious Skin Centact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek

Bye contact: Flush with plenty of water. If irritation develops, call a physician

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Ingestion: Do not induce vomiting. Lucsen tight clothing such as a collar, de, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

### SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and adour: Light beige powder, slight odour

Odour threshold: Not available

Specific gravity (°C): 1.5

Vuper pressure (mmHC): Not available

Vapor density (Air-1): Not available

Evaporation rate: Not available

Bolling point (\*C): Not available

Freeze/Melting point (°C): Not available

PH (%): 5.4-8.6

Co-efficient of water/oil distribution: Complete

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#### **XANTHAN GUM**

# SECTION VI: FIRE AND EXPLOSION DATA

Conditions of Hammability: May be combustible at high temperature

Means of extinguishing: Dry chemical, foam, water fug. spray

Flash point: Not available

Upper flammable limit: Not available

Lower flammable limit: Not available

Auto-ignition temperature: Not available

Hazardous combustion products: Not available

Explusion data-sensitivity to mechanical impact: Not available

Explosion data-sensitivity to static discharge: Compostible dust in the finely divided and suspended state.

# SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable.

Product incompatible with: Strong oxidizing agents and caustic solutions

Conditions of reactivity: Not applicable

Hazardous decomposition products: Not applicable

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### **XANTHAN GUM**

# SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Suggest NIOSH/MESA approved dust mask. Splash goggles.

Specific engineering controls: Use process enclosures, local exhaust ventuation, or other engineering controls to keep airborne tevels below recommended exposure limits. If user operations generate dust, fume or mist, use venutation to keep exposure to

Procedures for leak/spills: Sweep-up spilled material and repackage. Hose spill area very thoroughly. This product becomes

Waste disposal: Dispose of material in accordance with local urdinances. Landfill is suggested.

Handling procedures and equipment: Keep away from heat, Keep away from sources of ignition. Empty containers pose a fire risk; evaporate the residue under a fume bood. Ground all equipment containing material. Do not breathe dust, Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment if you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes

Storage requirements: Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container ughtly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away

Special shipping information: Not applicable

### SECTION IX: PREPARATION

Date updated: March 30, 2007

Prepared by: Product Safety Committee

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## MATERIAL SAFETY DATA SHEET

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#### **HT 40N**

## SECTION I: IDENTIFICATION OF PRODUCT

Product Name: HT 40 N
Chemical Family: Hydrocarbon
WHMIS Classification: Not controlled
Workplace Hozard: Not applicable

Product Use: Orill mad oil TDG Classification: Not regulated Parkaging Group: Not applicable Pin: Not applicable

## SECTION II: INFORMATION ON INGREDIENTS

Ingredients
Mixture of severely hydrotreated
and hydrocracked base oil
(petrolcum) and other propnetary,
non-hazardous additives.

Percent 100

CAS Number Mixture LD<sub>m</sub> (Species/Route) Acute Oral roxioity (LD50): >5000 mg/kg (rat) Acute Dermal toxicity (LD50): >2000 mg/kg

LC<sub>20</sub> (Species/Route) Acute Inhalation toxicity (LC50): >2300 mg/m³/4h (rat)

## SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry:

🛭 Skin

Eye Contact

Inhalation

(rabbit)

🖾 Ingestion

Effects of acute exposure: Short-term exposure is expected to cause only slight irritation, if any. To eyes and skin, ingestion of this product may lead to aspiration of the liquid, especially if vomiting occurs. This may result in chemical pneumonitis (inflammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the lungs). May produce a laxative effect.

Effects of chronic exposure: Prolonged or repeated contact may defet and dry skin, and cause dermattus.

Exposure limits; 8 hours TLV-TWA of 5 mg/m3 based on ACGIH TLV for oil mist. STEL 10 mg/m3 (til mist)

Irritancy of product: Eye irritation with oil mist spray.

Sensitization to product: This product is not expected to be a skin/respiratory tract sensitizer.

Carcinogenicity: Not expected

Reproductive toxicity: Not expected

Teratogenicity: Not expected Mutagenicity: Not expected

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Name of toxicological synergistic products: Not expected

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**HT 40N** 

### SECTION IV: FIRST AID MEASURES

Skin contact: Quickly and gently, blut or brush away excess chemical. Wash gently and thoroughly with water and non-abrasive soap for 5 minutes or until chemical is removed. Remove contaminated clothing, shoes and leather goods (e.g., watchbands, belts, leather goods before reuse or diseard.

Eye contact: No effects expected. If invitation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the chemical is removed. If invitation persists, obtain medical advice.

Inhalation: Remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice.

Ingestion: NEVER give anything by much if victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT INDUCE VOMITING. Have victim drink 240 to 300 mL (8 to 10 oz) of water to dilute material in stomach. If vomiting occurs naturally, tinse mouth and repeat administration of water. Obtain medical attention.

### SECTION V: PHYSICAL DATA

Physical states Viscous liquid.

Appearance and edourt Clear and bright viscous liquid. No odour or petroleoum oil like.

Odour threshold: Not available

Specific gravity: 0.845 @ 150€ (59aF)

Vapor pressure (mniHG): Negligible at ambient temperature and pressure.

Vapor density (Air=1): Not available

Evaporation rate: Not available

Boiling point (°C): Not available

Freeze/Melting point (°C): Not available

pH: Not applicable

Co-efficient of water/oil distribution: Insoluble in water

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**HT 40N** 

## SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Low fire hazard. This material must be heated before ignition will occur,

Means of extinguishing: Carbon dioxide, dry chemical, foam, water spray, fog and water.

Flash point: Closed Cup > or equal to 104°C (219 °F)

Upper flammable limit: Not available

Lower flammable limit: Not available

Auto-ignition temperature: Not available

Hazardous combustion products: Carbon oxides (CO, CO2), nitrogen oxides (NOx), part oxidized hydrocarbon fragments, smoke and irritating vapors as products of incomplete combustion.

Explosion data-sensitivity to mechanical impact: Do not cut, weld, heat, drill or pressurize empty container. Containers may

Explosion data-sensitivity to static discharge: Not applicable

### SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): The product is stable under normal handling and sturage conditions.

Product incompatible with: Reactive with oxidizing agents.

Conditions of reactivity: Reactive with oxidizing agents.

Hazardous decomposition products: May release COx, NOx, par t oxidized hydrocarbon fragment, smoke and irritating vapors when heated to decomposition.

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**HT 40N** 

### SECTION VIII: PREVENTATIVE MEASURES

#### Personal protective equipment:

Eves: As a minimum, safety glasses with side shields should be worn when handling this material.

Budy: If this material may come in contact with the body during handling and use, we recommend wearing appropriate protective clothing to prevent contact with the skin. (Contact your PPE provider for more information.).

Respiratory - A minimum of NIOSM-approved an-purifying respirator with an organic vapor cartridge or canister with a dust, fume of mist filter (R, or P series) may be permissible under certain circumstances where airborne concentrations are expected to exposure limits. Protection provided by alt-purifying respirators is limited. A NIOSM-approved positive-pressure, airconcentrations are expected to exceed exposure limits.

Hands: If this material may come in contact with the hands during handling and use, we recommend wearing gloves of the following material(s): Neoprenc, Nitrile, Polyvinyl alcohol (PVA), Fluore-clastomer. Consult your PPE provider for breakthrough times and the specific glove that is best for you based on your use patterns.

Feet: Wear appropriate footwear to prevent product from coming in contact with feet and skin.

Specific engineering controls: For normal application, special ventilation is not necessary. If user's operations generate vapors or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Make-up air should always be supplied to balance air removed by exhaust ventilation. Ensure that cycwash station and safety shower are close to work-station.

Procedures for leak/spills: Consult current National Emergency Response Guide Book (NABRG) for appropriate spill measures if necessary. Extinguish all agnition sources. Stop leak if safe to do so. Dake spilled material. Use appropriate tren absorbent material to absorb spilled product. Collect used absorbent for later disposal. Avoid contact with spilled material. Avoid contaminating sewers, arreams, rivers and other water courses with spilled material. Notify appropriate authorities immediately.

Waste disposal: Spent/used/waste product may meet the requirements of a hazardous waste. Consult your local or regional authorities. Ensure that waste management processes are in compliance with government requirements and local disposal regulations.

Handling procedures and equipment: Avoid contact with any sources of ignition, flatters, heat, and sparks. Avoid eye contact. Avoid skin contact. Avoid inhalation of product vapors or mists. Empty containers may contain product residue. Do not pressurize, cut, heat, or weld empty containers. Do not reuse containers without commercial cleaning and/or reconditioning. Personnel who handle this material should practice good personal hygiene during and after handling to help prevent accidental ingestion of this product. Properly dispose of contaminated leather articles including shoes that cannot be decontaminated.

Storage requirements: Store away from incompatible and reactive materials (See section 5 and 10). Keep container nightly closed. Store in dry, cool, well-ventilated area

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: September 3, 2005

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the satety, toxicity and sustainability for their own use of the product described as to the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. assume any hability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

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## MATERIAL SAFETY DATA SHEET

#### **KELZAN XCD**

#### SECTION I: IDENTIFICATION OF PRODUCT

Product Name: KELZAN XCD Chemical Family: Polysaccharide gum WHMIS Classification: Not applicable Workplace Hazard: Not applicable

Product Use: Viscoeifice TDG Classification: Not applicable Packaging Group: Not applicable PIN: Not applicable

### SECTION II: HAZARDOUS INGREDIENTS

Ingredients Xunthan gum

Percent

CAS Number 11138-66-2 LD<sub>34</sub> (Rat/Oral) >5000 mg/kg

LCso (Species/Ruste)

### SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry:

⊠ Skin

Eye Contact

Inhalation

**⊠** lagestion

Effects of scute exposure: Dry powder may cause irritation of skin. Prolonged exposure may cause drying or chapping of the skin.

Effects of chronic exposure: Not applicable

Exposure limits: Not established

Irritancy of product: Excessive inhalation of dust impedes respiration due to hygroscopic properties.

Sensitization to product: Not applicable

Carcinogenicity: Not available

Reproductive toxicity: Not available

Teratogenicity: Not available

Mutagentelty: Not available

Name of toxicological synergistic products: Not available

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### KELZAN XCD

### SECTION IV: FIRST AID MEASURES

Skin contact: Flush with plenty of water. Remove contaminated clothing.

Eye contact: Flush with plenty of water. If irritation develops, call a physician. Remove contact lenses. Remove contaminated clothing.

Inhalation: None anticipated. Remove to fresh air. Call a physician.

Ingestion: Essentially non-toxic. Contact a physician or poison control center for advice.

### SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: Light beige powder, slight odour.

Odour threshold: Not available

Specific gravity: Not available

Vapor pressure (mmHG): Not available

Vapor density (Air-1): Not available

Evaporation rate: Not available

Bolling point (°C): Not available

Freeze/Melclog point ("C): Not available

p.H: Approximately neutral

Cu-efficient of water/oil distribution: Not applicable

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#### KELZAN XCD

## SECTION VI: FIRE AND EXPLOSION DATA

Conditions of nameability: Not applicable

Means of extinguishing: Dry chemical, alcohol foam, water fog, and CO2.

Flash point: Not applicable

Upper Cammable limit: Not applicable

Lower flammable limit: Not applicable

Auto-legition temperature: Not applicable

Razardous combustion products: Carbon dioxide, carbon monoxide

Explosion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Not applicable

## SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable.

Product incompatible with: Strong exidizing agents,

Conditions of reactivity: Combustible dust in the finely divided and suspended state.

Hazardous decomposition products: Carbon dioxide, carbon monoxide from thermal decomposition

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#### KELZAN XCD

### SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Suggest NIOSH/MESA approved dust mask.

Specific engineering controls: 10 changes per hour suggested.

Procedures for leak/spills: Sweep-up spilled material and repackage. Hose spill area very thoroughly. This product becomes very slippery when wet.

Waste disposal: Handle as non-hazardous material

Handling procedures and equipment: Product becomes very suppory when wet. Wash thoroughly after handling. Keep container closed. Exercise caution in the storage and handling of all chemical substances. Use in ventilated area.

Storage requirements: Product becomes very slippery when wet. Wash thoroughly after handling. Keep container closed. Exercise caution in the storage and handling of all chemical substances. Use in ventilated area.

Special shipping terormetion: Not applicable

#### SECTION IX: PREPARATION

Date updated: April 1, 2005

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

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# MATERIAL SAFETY DATA SHEET

#1700, 407 2ND STREET 6.W., CALGARY, ALBERTA T2P 2Y3 TELEPHONE: (403) 269-2242 FAX: (403) 269-2251 1-613-996-6666 - CANUTEC - Transportation Emergedcy 1-888-243-9771 - ChExSS - Chemical Exposure

## STAFLO REGULAR

# SECTION I: IDENTIFICATION OF PRODUCT

Product Name: STAFLO REGULAR Chemical Family: Sodium Carboxymcthylcellulose WHMIS Classification: Not applicable Workplace Hezard: Treat as nuisance dust

Product Use: Fluid lose reducer Tut Classification; Not applicable Packaging Group: Not applicable PIN: Not applicable

# SECTION II: HAZARDOUS INGREDIENTS

Ingredients None

CAS Number

LD, (Species/Route)

LCs (Species/Route)

# SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry:

🖾 Skin

Eye Contact

🔯 inbalation

Effects of acute exposure: May cause mechanical irritation to the eyes.. High dust concentrations may cause coughing and

Effects of chronic exposure: Not applicable

Exposure limits: Not applicable

Irritancy of product: Low

Sensitization to product: Not applicable Carcinogenicity: No information available

Reproductive toxicity: No information available

Teratogenicity. No information available

Mutagenicity; No information available

Name of toxicological synargistic products: No information available

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## STAFLO REGULAR

# SECTION IV: FIRST AID MEASURES

Skin contact: Wash skin thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if any discomfort continues.

Eye contact: Flush with gently flowing warm water until particles are removed. If irritation persists obtain medical attention.

Inhalation: Move to fresh ear. Apply oxygen or artificial respiration as required. If breathing difficulties or distress continues obtain medical attention.

Ingestion: If victim if fully conscious, rinse mouth then give i to 2 glasses of water. If symptoms develop obtain medical attention. Never give enything by mouth to an unconscious or convulsing victim.

## SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: Free flowing white powder; no appreciable odour

Odour threshold: Not applicable Specific gravity: Not available

Vapor pressure (mmHG): Not applicable

Vapor density (Air=1): Not applicable

Evaporation rate: Not applicable

soiling point (°C): Nut applicable

Freeze/Melting point (°C): Not applicable

pH: 6.0-8.5 (1% sal'n)

Co-efficient of water/oil distribution: Soluble in water.

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### STAFLO RECULAR

# SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not applicable

Means of extinguishing: Water spray, floam, dry chemical or CO2.

Flash point: Not applicable

Upper Hammable limit: Not applicable
Lower Hammable timit: Not applicable
Auto-ignition temperature: Not applicable

Hazardous combustion products: Oxides of carbon

Explosion data-sensitivity to mechanical impact; Not applicable

Explosion data-sensitivity to static discharge: Not applicable

Unusual Fire and explosion hazards: Dust/air mixtures may ignite violently upon exposure to spuries or sources of ignition.

## SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable. Hazardous polymerization will not occur.

Product incompatible with: No listed compatible materials

Conditions of reactivity: None known

Hazardous decomposition products: Oxides of carbon and hydrocarbons upon combustion.

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#### STAFLO REGULAR

### SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Suggest approved dust mask; nuisance dust. Use approved respirator with dust cartridges if level of airborne dust exceeds TLV. Suggest goggles or safety glasses with side-shields; nuisance dust. Ensure eyewash station and emergency shower available when handling chemicals.

Specific engineering controls: Use in well-ventilated area. Use local exhaust ventilation, process enclosure or other engineering controls to maintain level of antonne dust below TLV.

Procedures for leak/spills: Use appropriate safety equipment. Eliminate lightion sources. Vacuum or sweep-up if dry. If wet, pick up with dry material such as sand or dirt. Avoid flushing with water as material becomes slippery. Non-sparking mols should be used as dust/sir mixtures may explode violently. Collect uncontaminated material in approved contamers for disposal.

Waste disposal: Dispose in accordance with federal, provincial and local regulations. Landfill is suggested. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Empty packaging must be disposed of, or recycled, in accordance with local regulations.

Handling procedures and equipment: Handle in well ventilated areas. Avoid dust generation. Practice good hygiene

Storage requirements: Store to original container. Store in cool, dry area (hygrosenpie).

Special shipping information: Not applicable

#### SECTION IX: PREPARATION

Date updated: June 26, 2006

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

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### MATERIAL SAFETY DATA SHEET

#1700, 407 2<sup>ND</sup> STREET S.W., CALGARY, ALBERTA T2P 2Y3
TELEPHONE: (403) 269-2242 FAX: (403) 269-2251
1-613-996-0666 - CANUTEC - Transportation Emergency
1-888-243-9771 - Chease - Chealeal Exposure

#### STAFLO REGULAR

#### SECTION I: IDENTIFICATION OF PRODUCT

Product Name: STAFLO REGULAR
Chemical Family: Sodium Carboxymothylcelfulose
WHMTS Classification: Not applicable
Workplace Hazard: Treat as nuisance dust

Product Use: Fluid loss reducer TDG Classification: Not applicable Packaging Group; Not applicable PIN: Not applicable

#### SECTION II: HAZARDOUS INGREDIENTS

Ingredients

Percent

CAS Number

LD<sub>fe</sub> (Species/Route)

LC<sub>50</sub> (Species/Route)

### SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry:

Skin

Eye Contact

noiseladal 🔯

Ingestion

Effects of acute exposure: May cause mechanical irritation to the eyes.. High dust concentrations may cause coughing and

Effects of chronic exposure: Not applicable

Exposure limits: Not applicable

Irritancy of product; Low

Sensitization to pruduct: Not applicable

Carcinogenicity: No information available

Reproductive texicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Name of toxicological synergistic products: No information available

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## STAFLO REGULAR

# SECTION IV: FIRST AID MEASURES

Skin contact: Wash skin thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if any discomfort continues.

Eye contact: Flush with gently flowing warm water until particles are removed. If irritation persists obtain medical attention.

Inhalation: Move to fresh air. Apply oxygen or artificial respiration as required. If breathing difficulties or distress continues obtain medical attention.

Ingestion: If victim if fully conscious, rinse mouth then give 1 to 2 glasses of water. If symptoms develop obtain medical attention. Never give anything by mouth m 2h unconscious or convulsing victim.

## SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: Free flowing white powder; no appreciable odour

Odour threshold: Not applicable Specific gravity: Not available

Vapor pressure (mmHG): Not applicable

Vapor density (Air-1): Not applicable

Evaporation rate: Not applicable

Bolling point (°C): Not applicable

Freeze/Melting point (°C): Not applicable

pH: 6.0-8.5 (1% sol'n)

Co-efficient of water/oil distribution: Soluble in water.

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## STAFLO REGULAR

## SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not applicable

Means of extinguishing: Water spray, foam, dry chemical or CO2.

Flash point: Not applicable

Upper flammable limit; Not applicable

Lower flammable limit: Not applicable

Auto-ignition temperature: Not applicable

Hazardous combustion products: Oxides of earbon

Explosion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Not applicable

Unusual Fire and explusion hazards: Dust/air mixtures may ignite violently upon exposure to sparks or sources of ignition.

## SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable, Hazardous polymerization will not occur.

Product incompatible with: No listed compatible materials

Conditions of reactivity: None known

Hazardous decomposition products: Oxides of earbon and hydrocarbons upon combustion.

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#### STAFLO REGULAR

#### SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Suggest approved dust mask; nuisance dust. Use approved respirator with dust earlyidges if level of airborne dust exceeds TLV. Suggest goggles or safety glasses with side-shields; nuisance dust. Ensure cyewash station and emergency shower available when handling chemicals.

Specific engineering controls: Use in well-ventilated area. Use local exhaust ventilation, process enclosure or other engineering controls to maintain level of atroome dust below TLV.

Procedures for leak/spills: Use appropriate safety equipment. Eliminate ignition sources. Vacuum or sweep-up if dry. If wet, pick up with dry material such as sand or dut. Avoid flushing with water as material becomes slippery. Non-sparking tools should be used as dust/air mixtures may explode violently. Collect uncontaminated material in approved containers for disposal.

Waste disposal: Dispose in accordance with federal, provincial and local regulations. Landfill is suggested. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Empty packaging must be disposed of, or recycled, in accordance with local regulations.

Handling procedures and equipment: Handle in well ventilated areas. Avoid dust generation. Practice good hygiene

Storage requirements: Store in original container. Store in cool, dry aren (hygroscopie).

Special shipping information: Not applicable

#### SECTION IX: PREPARATION

. Date updated; June 26, 2006

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarance, expressed or implied, is made by Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or dosirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

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### MATERIAL SAFETY DATA SHEET

#1700, 407 2<sup>MD</sup> STREET S.W., CALGARY, ALBERTA T2P 2Y3 TELEPHONE: (403) 269-2242 FAX: (403) 269-2251

> 1-613-996-6666 - CANUTEC - Transportation Emergency 1-888-243-9771 - ChExSS - Chemical Exposure

## **CALCIUM CARBONATE "325"**

### SECTION I: IDENTIFICATION OF PRODUCT

Product Name: CALCIUM CARBONATE "325" Chemical Family: Alkaline Earth WHMIS Classification: Not applicable Workplace Hazard: Not applicable

Product Uses Endging agent TDG Classification: Not applicable Packaging Group: Not applicable PIN: Not applicable

## SECTION II: HAZARDOUS INGREDIENTS

Ingredients

Calcium Carbonate (Limestone) Crystalline Silice, Quartz Percent 60-100 CAS Number 471-34-1 14808-60-7

LD<sub>50</sub> (Rat/Oral) 6450 mg/kg

LCso (Species/Route)

## SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry:

X Skin

Eye Contact

Inhalation

M Ingestion

Effects of acute exposure: Irritant

Effects of chronic exposure: No signs or symptoms of chronic exposure have been reported.

Exposure limits: Not applicable

Irritance of product: May cause skin and eye irritation. If inhaled in form of dust, may cause reparatory tract, irritation/inflammation. Exposure may cause coughing and sneezing. Large amounts may cause chemical pneumonitie. Cause gastro-intestinal irritation. If ingested in large quantities may cause nausea, constipation and hypercalcaemia, hemorrhage.

Sensitization to product: Not applicable

Carcinogenicity: May contain crystalline sities which is carcindenic to humans.

Reproductive toxicity: Not applicable

Teratogenicity: Not applicable

Mutagenicity: Not applicable

Name of toxicological synergistic products: Not applicable

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### **CALCIUM CARBONATE "325"**

#### SECTION IV: FIRST AID MEASURES

Skin contact: Carefully and gently brush the contaminated body surfaces in order to remove all traces of Calcium Carbonate. Use a brush, cloth or gloves. Remove all Calcium Carbonate-contaminated clothing. Rinse contaminated area with lukewarm water for 15 to 20 minutes. If irritation occurs or persists seek medical attention.

Eye contact: Immediately rinse contaminated sys(s) with gently running lukewarm water for 15 to 20 minutes. If irritation occurs or persists seek medical attention.

Inhalation: Move sources of dust or move victim to fresh air. Obtain medical attention immediately. If victim does not breathe, give artificial respiration. Contact a physician immediately.

Ingestion: If victim is unconscious, wash our mouth with water. Here conscious person drink several glasses of water to dilute. Induce vorniting. Contact a physician immediately. Never give anything by mouth to an unconscious or convulsing person.

#### SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: Odourless - white to gray solid or powder

Odour threshold: Not applicable

Specific gravity: 2.65 - 2.75

Vapor pressure (mmHG): Not applicable

Vapor density (Air-1): Not applicable

Evaporation rate: Not applicable

Boiling point (°C): Not applicable

Preeze/Melting point (\*C): Not applicable

pH: 9.4

Co-efficient of water/oil distribution: Not applicable

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PACE 76/81 \* RCVD AT 9/1/12007 2:48:07 PM [Eastern Daylight Time] \* SVR:USPTO-EFXRF-2/10 \* DNIS:2731091 \* CSID:613 230 5459 \* DURATION (mm-ss):24-06



# **CALCIUM CARBONATE "325"**

## SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not applicable

Means of extinguishing: Calcium Carbonate does not burn. Use extinguishing media appropriate to surrounding fire conditions.

Flash point: Not applicable

Upper flammable timit: Not applicable
Lower flammable timit: Not applicable
Auto-ignition (emperature: Not applicable

Hazardous combustion products: None

Explosion data-sensitivity to mechanical impact. Not applicable

Explosion data-sensitivity to static discharge: Not applicable.

### SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable

Product incompatible with: Fluorine, magnessum, aluminum, silicon, hydrogen, mercury, aluminum sulfate, ammonium sulfate, acids (violent reaction with generating heat and possible explosion in confined area).

Conditions of reactivity; Calcium Carbonate is a very stable chemical substance. Decomposition does not occur at normal temperatures (inferior to 600 °C). Reacts chemically with strong acids to form calcium based compounds and to liberate carbon diuxide.

Hazardous decompositium products: Decomposes et 870 °C to form carbon dioxide and calcium oxide

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# CALCIUM CARBONATE "325"

# SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: NIOSH approved filtering anti-dust mask. Gaunticts Cuff styleTight fitting goggles with side shields. Wear clean, dry gloves, full length parts over boots, long sleeved shirt buttained to the nack, head protection and approved type protection selected for the working conditions.

Specific engineering controls: Enclose dust sources; use exhaust ventilation (dust collector) or other engineering controls at handling points to keep airborne levels below recommended exposure limits.

Procedures for leak/spills: Limit access to trained personnel. Sweep up and place in container. Use industrial vacuums for large spills. Avoid raising dust. Ventilate area

Waste disposal: Transport to disposal erce or bury. Federal, Provincial and Local regulations

Handling procedures and equipment: Avoid tkin and eye contact. Minimize dust generation. Wear protective goggles and incuses of insufficient ventilation, use anti-dust mask.

Storage requirements: An eye wash station shooed be readily available where this is used. When storing, keep tightly closed containers in a cool; dry and well-ventilated area, away from acids.

Special shipping information: Not applicable,

### SECTION IX: PREPARATION

Date updated: March 8, 2005

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since of applicable laws or government regulations.

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## MATERIAL SAFETY DATA SHEET

#1/00, 407 2<sup>ND</sup> STREET S.W., CALGARY, ALBERTA T2P 2Y3 TELEPHONE: (403) 269-2242 FAX: (403) 269-2251 1-613-996-6666 - CANUTEC - Transpurtation Emergency 1-888-243-9771 - ChExSS - Chemical Exposure

#### Q'BREAK

## SECTION I: IDENTIFICATION OF PRODUCT

Product Name: O'BREAK Chemical Family: Enzymes and acid blend WHMIS Classification: D2A,D2B Workplace Hazard: Respiratory tract sensitizer, Skin & eye irritanı.

Product Use: Breaker to separate water in Polyter TDG Classification: Not Regulated Packaging Group: Not applicable PIN: Not applicable

### SECTION II: HAZARDOUS INGREDIENTS

Ingredients Citric Acid Amylase

Percent 30-60% 1-5%

CAS Number 77-92-9 9000-90-2

LD. (Species/Route) 3000 mg/kg Not determined

LC<sub>50</sub> (Species/Route) Not determined Not determined

#### SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry!

Skin

Eye Cantact

Inhalation

M Ingestion

Effects of acute exposure: Dust may irritate the nose and throat. Inhalation may cause irritation of the mucous membranes. May cause gastrointestinal irritation and dental cression if ingested. May cause irritation to eyes and skin.

Effects of chronic exposure: Repeated inhalation of enzyme zerosole may cause respiratory tract sensitization in susceptible individuals. Symptome include shortness of breath, skin rashes and irritation to eyes.

Exposure limits: Not determined

Irritancy of product: Skin and cyc tritam

Sensitization to product: Respiratory tract sensitizer

Carcinogenicity: Not determined

Reproductive toxicity: Not determined

Teratogenicity: Not determined

Mutagenicity: Not determined

Name of toxicological synergistic products: Not determined

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### Q'BREAK

## SECTION IV: FIRST AID MEASURES

Skin contact: Flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse.

Eye contact: Immediately flush with running water for 15 minutes. Hold cyclids apart to ensure maing of the cative surface of the eye and lids. Get immediate medical attention,

Inhafation: Remove to fresh air.

Ingestion: Do not induce vomiting. If conscious, give lots of water. Get immediate medical attention.

### SECTION V: PHYSICAL DATA

Physical state: Powder

Appearance and odour: White grandular, odourless

Odour threshold: Not applicable

Specific gravity (°C): 1.54

Vapor pressure (mmHG): Not determined

Vapor density (Air=1): Not determined

Evaporation rate: Not determined

Bulling point (°C): Not applicable

Freeze/Melting puint (°C): Not determined

pH (%): 2.6 @ 10%, 2.4 @ 20% (wt/v)

Solubility in water: 1.62 g / 100 ml

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**Q'BREAK** 

# SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Not applicable

Means of extinguishings Water, dry chemical, foam.

Flash point: Not applicable

Upper (lammable limit; Not applicable

Lower flammable that: Not applicable

Anto-ignition temperature: Nut applicable

Hazardous combustion products: Not applicable

Explosion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Not applicable

## SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable

Product tocompatible with: Alkali metals, organic acids, oxides of sulphur and strong bases.

Conditions of reactivity: Not known

Hazardous decomposition products: COx on combustion.

Hazardous polymerization: Will not occur

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#### **Q'BREAK**

#### SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: NIOSH approved dust mask if ventilation is inadequate. Chemical resistant protective gloves. Safety glasses with side shields.

Specific engineering controls: General mechanical ventilation.

Procedures for leak/apities Wear protective equipment. For small spills, sweep up and dispose of in approved waste containers. For large spills, shovel into approved waste containers. Keep out of sewers, storm drains, surface waters and soil.

Waste dispusal: Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures.

Handling procedures and equipment: Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing.

Storage requirements: Store in a cool, dry, well-ventilated place away from mecompatible materials. Keep bags or liber drums dry at all times.

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: January 2007

Prepared by: Product Safety Committee

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